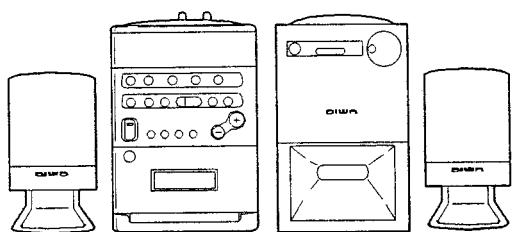


# aiwa

## LCX - 9

S E R V I C E M A N U A L



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM - 1 R2N
- BASIC CD MECHANISM : KSM - 2101BAM
- TYPE: E, K, Z, HM, HR

改 定 版  
[REVISION PUBLISHING]

SYSTEM	CD - CASSEIVER	CENTER SPEAKER	SATELLITE SPEAKERS	REMOTE CONTROLLER
LCX - 9	CX - L9	TS - L9	SX - L9	RC - L7

## TABLE OF CONTENTS

SPECIFICATIONS .....	3
MODEL No. CX - L9	
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING .....	4
PRECAUTION TO REPLACE OPTICAL BLOCK .....	4
ELECTRICAL MAIN PARTS LIST .....	5~10
TRANSISTOR ILLUSTRATION .....	10
SCHEMATIC DIAGRAM - 1 (MAIN).....	11~12
WIRING - 1 (MAIN) .....	13~14
SCHEMATIC DIAGRAM - 2 (TUNER : E, K).....	15~16
WIRING - 2 (TUNER : E, K).....	17~18
SCHEMATIC DIAGRAM - 3 (TUNER : Z) .....	19~20
WIRING - 3 (TUNER : Z) .....	21~22
SCHEMATIC DIAGRAM - 4 (TUNER : HR).....	23~24
WIRING - 4 (TUNER : HR) .....	25~26
SCHEMATIC DIAGRAM - 5 (TUNER : HM) .....	27~28
WIRING - 5 (TUNER : HM) .....	29~30
SCHEMATIC DIAGRAM - 6 (CD).....	31~32
WIRING - 6 (CD) .....	33~34
SCHEMATIC DIAGRAM - 7 (DISPLAY) .....	35~36
WIRING - 7 (DISPLAY) .....	37~38
WIRING - 8 (POWER, MIC) .....	39
SCHEMATIC DIAGRAM - 8 (MIC) .....	40
FL GRID ASSIGNMENT/ANODE CONNECTION .....	41
ADJUSTMENT - 1~4.....	42~48
PRACTICAL SERVICE FIGURE.....	42, 49
IC BLOCK DIAGRAM .....	50
MECHANICAL EXPLODED VIEW 1/1, PARTS LIST 1/1 .....	51~53
CD MECHANISM EXPLODED VIEW 1/1, PARTS LIST 1/1 .....	54
TAPE MECHANISM EXPLODED VIEW 1/1, PARTS LIST 1/1 .....	55~57
SPRING APPLICATION POSITION .....	58
MODEL No. TS - L9	
ELECTRICAL MAIN PARTS LIST .....	59
TRANSISTOR ILLUSTRATION .....	60
IC BLOCK DIAGRAM .....	60
SCHEMATIC DIAGRAM .....	61~62
WIRING .....	63~64
MECHANICAL EXPLODED VIEW 1/1, PARTS LIST 1/1 .....	65~66
MODEL No. SX - L9	
MECHANICAL EXPLODED VIEW 1/1, PARTS LIST 1/1 .....	67
ACCESSORIES/PACKAGE LIST.....	68
REFERENCE NAME LIST.....	69

## SPECIFICATIONS

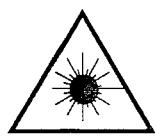
<FM section>		SPEAKER TS-L9	
Frequency range	87.5 MHz to 108 MHz	Cabinet type	1 way, bass reflex (Magnetism sealed type)
Antenna	75 ohms (unbalanced)	Speaker	100 mm (4 in.) cone type woofer
<AM (MW) section>		Impedance	8 ohms
Frequency range	AM 531 (530) kHz to 1602 (1710) kHz (9 kHz/10 kHz step)	Power requirements	TS-L9 HR, HM : AC 110 – 120 V/220 – 240 V, switchable 50/60 Hz TS-L9 E, Z : AC 230 V, 50 Hz TS-L9 K : AC 240 V, 50 Hz
Antenna	Loop antenna	Power consumption	50 W
<SW section>		Power output	25 W (8 ohms, T.H.D. 10% 170 Hz) 20 W (8 ohms, T.H.D. 1% 170 Hz)
Frequency range	SW1 : 3200 kHz to 7300 kHz SW2 : 9.5 MHz to 21.85 MHz	Dimensions (W × H × D)	140 × 238 × 296 mm (5½ × 9¾ × 11¾ in.)
Antenna	Wire antenna	Weight	3.6 kg (7.9 lbs.)
<LW section > (E, K, Z models only)		SPEAKER SX-L9 (These values are for one speaker)	
Frequency range	153 kHz to 288 kHz	Speaker	80 mm cone type
Antenna	Loop antenna	Impedance	12 ohms
<Timer section>		Dimensions (W × H × D)	100 × 135 × 118 mm (4 × 5⅞ × 4⅓ in.)
Program timer	On-timer, capable of free setting	Weight	With the speaker stand: 100 × 197 × 118 mm (4 × 7⅜ × 4⅓ in.) 350 g (0.77 lbs.)
Sleep timer	Capable of setting in 10-minute increments, 120 minutes maximum		With the speaker stand: 406 g (0.89 lbs.)
<Amplifier section>		<GENERAL>	
Power output	10 W + 10 W (12 ohms, T.H.D. 10% 1 kHz) 7.5 W + 7.5 W (12 ohms, T.H.D. 1% 1 kHz)	Power requirements	LCX-9 HR, HM : AC 120 V/220 V/240 V, switchable 50/60 Hz LCX-9 E, Z : AC 230 V, 50 Hz LCX-9 K : AC 240 V, 50 Hz
Track format	4 tracks, 2 channels	Power consumption	CX-L9 (main unit): HR: 58 W HM: 42 W E, K, Z: 90 W
Frequency response	CrO <sub>2</sub> tape: 50 – 16000 Hz Normal tape: 50 – 15000 Hz		LCX-9 (with the speaker): HR: 108 W HM: 62 W E, K, Z: 140 W
Signal-to-noise ratio	50 dB	Dimensions (W × H × D)	Main unit: 140 × 238 × 253 mm (5⅔ × 9¾ × 10 in.)
Tape speed	4.8 cm/sec. (1⅓ ips)	Weight	System (placed horizontally): 480 × 238 × 296 mm (19 × 9¾ × 11¾ in.)
Recording system	AC bias		Main unit: 3.5 kg (7.7 lbs.) System: 7.9 kg (17.4 lbs.) (containing the speaker stands)
Erasure system	AC erase		
Head	Recording/playback head × 1 Erasure head × 1		
<CD player section>		• Design and specifications are subject to change without notice.	
Disc	Compact disc		
Scanning method	Non contact optical scanner (semiconductor laser application)		
Laser	Semiconductor laser ( $\lambda = 780$ nm)		
Rotation speed	Approx. 500 rpm – 200 rpm (CLV)		
Error correction	Cross Interleave, Reed Solomon code		
No. of channels	2 channels		
D-A conversion	16-bit linear		
Wow/flutter	Unmeasurable		

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

### WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå utsættelse for stråling.

### VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käytäjän turvallisuusluokan 1 ylitäälle näkymättömälle lasersäteilylle.

### VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### ATTENTION

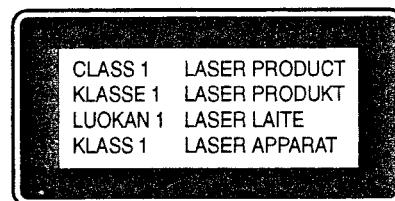
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

### ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå utsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

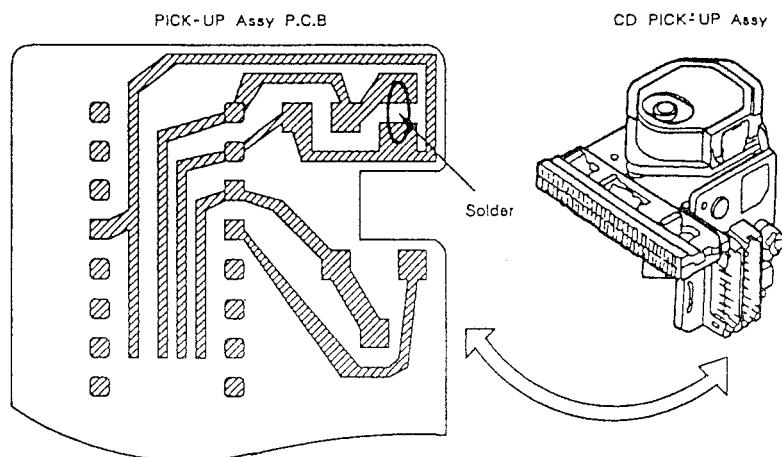


### Precaution to replace Optical block

#### (KSS – 210B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure to ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove the solder shown in the right figure.



# ELECTRICAL MAIN PARTS LIST (CX - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
IC							
87-017-474-010	IC, CXA1782AQ			87-001-913-089	ZENER, UTZJ5. 6B		
87-020-454-010	IC, DN6851			87-020-027-089	C-DIODE, 1SS184		
87-001-942-019	IC, LA1265S(G)			87-001-911-089	ZENER, UTZJ4. 7A(TAPG)		
83-CT2-664-010	IC, UPD78043GF-049			87-027-286-089	ZENER, HZ5C1		
87-002-901-089	IC, BU4094BF			87-020-125-089	C-DIODE, 1SS181		
87-017-475-010	IC, CXD2517Q			87-020-583-089	C-ZENER, 02CZ5. 1Y(HM)		
87-020-446-019	IC, TA7343AP			87-027-332-089	ZENER, HZ6B1L(E, HR, Z, K)		
87-017-486-089	IC, BA6397FP			87-020-591-089	C-ZENER, 02CZ91Y		
87-001-376-019	IC, LC7218			87-020-339-089	C-ZENER, 02CZ11Y		
87-002-657-089	IC, BA3830F			87-001-912-089	C-DIODE, 1SS226		
87-017-429-089	IC, TDA1311A(T)			87-002-225-019	ZENER, UTZJ5. 1B		
87-002-900-089	IC, BU4051BF			87-027-469-080	DIODE, DBF40C-K10		
87-001-982-019	IC, TA7291S			87-001-820-010	ZENER, HZ16-2		
82-MXE-602-010	IC, GP1U581Y			87-002-743-089	DIODE, GP15B(F)		
87-017-360-080	IC, SC7S04F			87-017-164-089	ZENER, MTZJ33B		
87-017-022-089	IC, NJM2068M-D(T1)			87-001-912-089	ZENER, HZS9A2L		
87-002-290-019	IC, BA3126F			MAIN C. B			
87-027-842-089	IC, NJM2904M			C9	87-010-374-089	CAP, E 47-10	
87-001-607-089	IC, NJM4558M			C11	87-010-374-089	CAP, E 47-10	
87-017-541-080	IC, M65830AFP(HR, HM)			C12	87-010-318-089	C-CAP, S 47P-50 CH	
87-002-226-019	IC, TA8220H			C13	87-010-405-089	CAP, E 10-50 SME	
87-027-739-019	IC, NJM4556D			C301	87-012-156-089	C-CAP, 220P CH	
87-017-421-089	IC, TC9212F			C302	87-012-156-089	C-CAP, 220P CH	
87-002-967-089	IC, BU4052BF			C303	87-010-197-089	C-CAP, S 0.01-25 B	
87-002-218-010	IC, XRC5451AP			C304	87-010-197-089	C-CAP, S 0.01-25 B	
△ 87-020-730-089	IC, TC4069UBF			C305	87-010-189-089	C-CAP, S 8200P-50 B	
△ 87-001-132-089	IC, ICP-N38T104			C306	87-010-189-089	C-CAP, S 8200P-50 B	
TRANSISTOR				C307	87-010-405-089	CAP, E 10-50 SME	
89-503-025-089	C-FET, 2SK302GR			C308	87-010-405-089	CAP, E 10-50 SME	
89-327-124-089	C-TR, 2SC2712Y			C309	87-010-404-089	CAP, E 4.7-50 SME	
87-026-463-089	TR, 2SA933S(RS)			C310	87-010-404-089	CAP, E 4.7-50 SME	
89-327-143-089	C-TR, 2SC2714(0)			C311	87-010-178-089	C-CAP, S 1000P-50 B	
89-113-187-889	TR, 2SA1318TU			C312	87-010-178-089	C-CAP, S 1000P-50 B	
87-026-235-089	C-TR, DTC114EK			C312	87-010-178-089	C-CAP, S 1000P-50 B	
87-026-237-089	C-TR, DTC124XK			C313	87-012-140-089	C-CAP, S 1000P-50 B	
89-502-114-089	FET, 2SK211Y(E, Z, K)			C314	87-012-140-089	C-CAP, S 470P-50 CH	
89-112-134-089	C-TR, 2SA1213Y			C315	87-010-185-089	C-CAP, S 3900P-50 B	
89-113-625-089	C-TR, 2SA1362GR(TAPG)			C316	87-010-185-089	C-CAP, S 3900P-50 B	
89-109-521-089	TR, 2SA952K			C317	87-010-184-089	C-CAP, S 3300P-50 B	
89-327-125-089	C-TR, 2SC2712GR			C318	87-010-184-089	C-CAP, S 3300P-50 B	
87-026-233-089	C-TR, DTA114TK			C319	87-010-180-089	C-CAP, S 1500P-50 B	
87-026-239-089	C-TR, DTC114TK			C320	87-010-180-089	C-CAP, S 1500P-50 B	
89-505-445-080	FET, 2SK544E(HM)			C321	87-012-154-089	C-CAP, S 150P-50 CH	
87-026-230-089	C-TR, DTA114YK			C322	87-012-154-089	C-CAP, S 150P-50 CH	
89-502-094-089	C-FET, 2SK209Y			C323	87-010-182-089	C-CAP, S 2200P-50 B	
87-026-214-089	TR, DTA114YS			C324	87-010-182-089	C-CAP, S 2200P-50 B	
89-111-624-089	C-TR, 2SA1162Y			C325	87-010-402-089	CAP, E 2.2-50 SME	
87-026-462-089	TR, 2SC1740S RS(HM)			C326	87-010-402-089	CAP, E 2.2-50 SME	
89-320-011-089	TR, 2SC2001(K)(HM)			C327	87-012-156-089	C-CAP, 220P CH	
89-318-155-089	TR, 2SC1815(GR)(HM)			C328	87-012-156-089	C-CAP, 220P CH	
89-318-154-089	TR, 2SC1815Y(HM)			C329	87-010-374-089	CAP, E 47-10	
87-026-213-089	C-TR, DTC114YK T147			C330	87-010-374-089	CAP, E 47-10	
89-113-188-089	TR, 2SA1318U			C351	87-010-260-089	CAP, E 47-25 SME	
87-026-210-089	C-TR, DTC144EK T147			C352	87-010-371-089	CAP, E 470-6.3	
89-332-654-089	C-TR, 2SC3265Y			C353	87-010-183-089	C-CAP, S 2700P-50 B	
87-026-211-089	C-TR, DTA144EK T147			C354	87-010-183-089	C-CAP, S 2700P-50 B	
89-333-266-089	C-TR, 2SC3326B			C355	87-010-183-089	C-CAP, S 2700P-50 B	
87-026-227-080	C-TR, DTA114EK			C356	87-010-197-089	C-CAP, S 0.01-25 B	
89-113-188-080	TR, 2SA1318U(HM)			C357	87-010-260-089	CAP, E 47-25 SME	
89-212-923-019	TR, 2SB1292F			C359	87-010-178-089	C-CAP, S 1000P-50 B	
89-213-702-019	TR, 2SB1370E			C360	87-010-405-089	CAP, E 10-50 SME	
89-332-665-089	TR, 2SC3266GR			C501	87-010-401-089	CAP, E 1-50 SME	
DIODE				C502	87-010-401-089	CAP, E 1-50 SME	
87-020-465-089	DIODE, 1SS133 T-72			C503	87-012-140-089	C-CAP, S 470P-50 CH	
				C504	87-012-140-089	C-CAP, S 470P-50 CH	

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
C505	87-010-405-089	CAP, E 10-50 SME		C747	87-010-400-089	CAP, E 0.47-50 SME	
C506	87-010-405-089	CAP, E 10-50 SME		C748	87-010-400-089	CAP, E 0.47-50 SME	
C511	87-010-405-089	CAP, E 10-50 SME		C751	87-010-401-089	CAP, E 1-50 SME	
C512	87-010-405-089	CAP, E 10-50 SME		C752	87-010-401-089	CAP, E 1-50 SME	
C521	87-010-248-089	CAP, E 220-10 SME		C753	87-010-400-089	CAP, E 0.47-50 SME	
C522	87-010-388-089	CAP, E 1000-25V SME		C754	87-010-400-089	CAP, E 0.47-50 SME	
C531	87-010-401-089	CAP, E 1-50 SME		C755	87-012-154-089	C-CAP, S 150P-50 CH	
C532	87-010-401-089	CAP, E 1-50 SME		C756	87-012-154-089	C-CAP, S 150P-50 CH	
C535	87-010-263-089	CAP, E 100-10		C757	87-010-401-089	CAP, E 1-50 SME	
C536	87-010-263-089	CAP, E 100-10		C758	87-010-401-089	CAP, E 1-50 SME	
C537	87-010-260-089	CAP, E 47-25 SME		C759	87-010-198-089	C-CAP, S 0.022-25 B	
C538	87-010-374-089	CAP, E 47-10		C760	87-010-198-089	C-CAP, S 0.022-25 B	
C539	87-010-405-089	CAP, E 10-50 SME		C761	87-010-197-089	C-CAP, S 0.01-25 B	
C541	87-010-384-089	CAP, E 100-25 SME		C762	87-010-197-089	C-CAP, S 0.01-25 B	
C542	87-010-384-089	CAP, E 100-25 SME		C763	87-010-401-089	CAP, E 1-50 SME	
C551	87-010-922-080	CAP, E 33-25 SRE		C764	87-010-401-089	CAP, E 1-50 SME	
C601	87-016-295-099	CAP, E 6800-30		C765	87-010-404-089	CAP, E 4.7-50 SME	
C602	87-010-198-089	C-CAP, S 0.022-25 B		C766	87-010-404-089	CAP, E 4.7-50 SME	
C603	87-010-198-089	C-CAP, S 0.022-25 B		C767	87-010-183-089	C-CAP, S 2700P-50 B	
C604	87-010-198-089	C-CAP, S 0.022-25 B		C768	87-010-183-089	C-CAP, S 2700P-50 B	
C605	87-010-198-089	C-CAP, S 0.022-25 B		C769	87-012-155-089	C-CAP, S 180P-50 CH	
C606	87-010-196-089	C-CAP, S 0.1-25 F		C770	87-012-155-089	C-CAP, S 180P-50 CH	
C607	87-010-198-089	C-CAP, S 0.022-25 B		C771	87-010-198-089	C-CAP, S 0.022-25 B	
C608	87-010-198-089	C-CAP, S 0.022-25 B		C772	87-010-198-089	C-CAP, S 0.022-25 B	
C609	87-010-780-499	CAP, E 6800-25V SMG		C773	87-010-400-089	CAP, E 0.47-50 SME	
C610	87-010-405-089	CAP, E 10-50 SME		C774	87-010-400-089	CAP, E 0.47-50 SME	
C611	87-010-260-089	CAP, E 47-25 SME		C775	87-010-404-089	CAP, E 4.7-50 SME	
C612	87-010-247-089	CAP, E 100-50 SME		C776	87-010-404-089	CAP, E 4.7-50 SME	
C613	87-010-403-089	CAP, E 3.3-50 SME		C777	87-010-405-089	CAP, E 10-50 SME	
C614	87-010-197-089	C-CAP, S 0.01-25 B		C778	87-010-401-089	CAP, E 1-50 SME	
C615	87-012-140-089	C-CAP, S 470P-50 CH		C779	87-010-405-089	CAP, E 10-50 SME	
C616	87-010-384-089	CAP, E 100-25 SME		C780	87-010-401-089	CAP, E 1-50 SME	
C617	87-010-381-089	CAP, E 330-16 SME		C781	87-010-101-089	CAP, E 220-16 SME	
C701	87-010-405-089	CAP, E 10-50 SME		C783	87-010-186-089	C-CAP, S 4700P-50 B	
C702	87-010-405-089	CAP, E 10-50 SME		C784	87-010-186-089	C-CAP, S 4700P-50 B	
C703	87-012-141-089	C-CAP, S 0.22-16 F		C785	87-010-149-089	C-CAP, S 5P-50 CH	
C704	87-012-141-089	C-CAP, S 0.22-16 F		C786	87-010-149-089	C-CAP, S 5P-50 CH	
C705	87-010-176-089	C-CAP, S 680P-50 SL (EXCEPT Z)		C787	87-010-186-089	C-CAP, S 4700P-50 B	
C706	87-010-176-089	C-CAP, S 680P-50 SL (EXCEPT Z)		C788	87-012-154-089	C-CAP, S 150P-50 CH	
C707	87-015-954-089	CAP, E 10-16 LL		C789	87-010-149-089	C-CAP, S 5P-50 CH	
C708	87-015-954-089	CAP, E 10-16 LL		C790	87-010-805-089	C-CAP, S 1-16F	
C709	87-010-260-089	CAP, E 47-25 SME		C791	87-010-374-089	CAP, E 47-10	
C710	87-010-371-089	CAP, E 470-6.3		C801	87-010-405-089	CAP, E 10-50 SME	
C711	87-010-426-089	C-CAP, S 0.012-25 B		C802	87-010-405-089	CAP, E 10-50 SME	
C712	87-010-426-089	C-CAP, S 0.012-25 B		C805	87-015-328-089	CAP, E 0.22-50 LL	
C717	87-010-546-089	CAP, E 0.33-50 SME		C806	87-015-328-089	CAP, E 0.22-50 LL	
C718	87-010-546-089	CAP, E 0.33-50 SME		C807	87-010-176-089	C-CAP, S 680P-50 SL	
C719	87-010-401-089	CAP, E 1-50 SME		C808	87-010-176-089	C-CAP, S 680P-50 SL	
C720	87-010-401-089	CAP, E 1-50 SME		C809	87-012-157-089	C-CAP, S 330P-50 CH	
C721	87-010-260-089	CAP, E 47-25 SME		C810	87-012-157-089	C-CAP, S 330P-50 CH	
C722	87-010-374-089	CAP, E 47-10		C811	87-010-405-089	CAP, E 10-50 SME	
C725	87-010-993-089	C-CAP, S 0.056-25 B		C812	87-010-405-089	CAP, E 10-50 SME	
C726	87-010-993-089	C-CAP, S 0.056-25 B		C815	87-010-404-089	CAP, E 4.7-50 SME	
C727	87-010-322-089	C-CAP, S 100P-50 CH		C816	87-010-197-089	C-CAP, S 0.01-25 B	
C728	87-010-322-089	C-CAP, S 100P-50 CH		C817	87-012-140-089	C-CAP, S 470P-50 CH	
C729	87-010-183-089	C-CAP, S 2700P-50 B		C819	87-010-197-089	C-CAP, S 0.01-25 B	
C730	87-010-183-089	C-CAP, S 2700P-50 B		C821	87-010-177-080	C-CAP, S 820P-50 SL	
C731	87-010-186-089	C-CAP, S 4700P-50 B		C822	87-010-177-080	C-CAP, S 820P-50 SL	
C732	87-010-186-089	C-CAP, S 4700P-50 B		C823	87-010-196-080	C-CAP, S 0.1-25 F(HM)	
C733	87-010-197-089	C-CAP, S 0.01-25 B		C901	89-663-815-089	CAP, TC 0.01(Z)	
C734	87-010-197-089	C-CAP, S 0.01-25 B		C902	89-663-815-089	CAP, E 0.01-25 Z	
C735	87-010-197-089	C-CAP, S 0.01-25 B		C903	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C736	87-010-197-089	C-CAP, S 0.01-25 B		C904	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C737	87-010-401-089	CAP, E 1-50 SME		C905	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C738	87-010-401-089	CAP, E 1-50 SME		C906	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C741	87-010-193-089	C-CAP, S 0.033-25 F(HR, HM)		C909	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C742	87-010-193-089	C-CAP, S 0.033-25 F(HR, HM)		C910	87-010-166-089	C-CAP, S 100P-50 SL(Z)	
C743	87-010-220-089	C-CAP, S 0.018-25 B(HR, HM)		C913	87-010-174-089	C-CAP, S 470P-50 SL(Z)	
C744	87-010-374-089	CAP, E 47-10		C914	87-010-174-089	C-CAP, S 470P-50 SL(Z)	
C745	87-010-260-089	CAP, E 47-25 SME		C915	87-010-178-089	C-CAP, S 1000P-50 B(Z)	

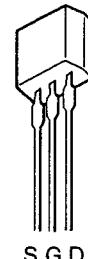
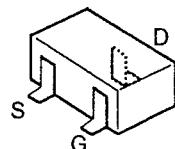
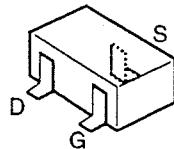
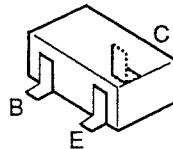
REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C916	87-010-178-089		C-CAP, S 1000P-50 B<Z>	C34	87-010-167-089		C-CAP, S 120P-50 SL<EXCEPT Z>
C917	87-010-166-089		C-CAP, S 100P-50 SL<Z>	C35	87-010-197-089		C-CAP, S 0. 01-25 B
C918	87-010-166-089		C-CAP, S 100P-50 SL<Z>	C36	87-010-401-089		CAP, E 1-50 SME
C929	87-010-197-089		C-CAP, S 0. 01-25 B<Z>	C37	87-010-404-089		CAP, E 4. 7-50 SME
C930	87-010-197-089		C-CAP, S 0. 01-25 B<Z>	C38	87-010-405-089		CAP, E 10-50 SME
C931	87-018-131-089		CAP, TC-U 1000P-50 B<Z>	C39	87-010-544-089		CAP, E 0. 1-50
C932	87-018-131-089		CAP, TC-U 1000P-50 B<Z>	C40	87-010-403-089		CAP, E 3. 3-50 SME
FC401	83-CT2-635-019		FLAT CABLE, 3P MIC	C41	87-010-404-089		CAP, E 4. 7-50 SME
FC601	83-CT2-621-019		FLAT CABLE, 8P PT	C42	87-010-404-089		CAP, E 4. 7-50 SME<Z>
FC701	83-CT2-624-019		FLAT CABLE, 6P CD	C43	87-010-197-089		C-CAP, S 0. 01-25 B
△ICF501	87-001-132-089		IC, ICP-N38 T104	C45	87-010-404-089		CAP, E 4. 7-50 SME
△ICF502	87-001-132-089		IC, ICP-N38 T104	C46	87-010-197-089		C-CAP, S 0. 01-25 B
J501	87-009-549-019		JACK, DIA 3. 5	C47	87-010-197-089		C-CAP, S 0. 01-25 B
J701	87-009-393-019		JACK, PIN 2P EARTH	C48	87-010-197-089		C-CAP, S 0. 01-25 B
J702	87-009-404-019		JACK, PIN 2P	C49	87-010-197-089		C-CAP, S 0. 01-25 B
J901	87-033-205-019		TERMINAL, SP-4P	C50	87-010-197-089		C-CAP, S 0. 01-25 B
L301	82-231-622-089		COIL, 22MH-J	C51	87-010-197-089		C-CAP, S 0. 01-25 B
L302	82-231-622-089		COIL, 22MH-J	C52	87-010-197-089		C-CAP, S 0. 01-25 B<E, Z, K>
L303	82-CD1-639-019		COIL, OSC BIAS 85K	C53	87-010-196-089		C-CAP, S 0. 1-25 F<E, HR, Z, K>
L901	81-NBW-655-019		COIL<Z>	C54	87-010-197-089		C-CAP, S 0. 01-25 B<E, Z, K>
L902	81-NBW-655-019		COIL<Z>	C55	87-014-049-089		CAP, PP 470P-100 J<E, Z, K>
L903	81-NBW-655-019		COIL<Z>	C56	87-010-313-089		C-CAP, S 18P-50 CH<E, Z, K>
L904	81-NBW-655-019		COIL<Z>	C56	87-010-152-089		C-CAP, S 8P-50 CH<HR>
R503	87-025-469-089		RES, NF2. 2-1/4WJ	C57	87-010-169-089		C-CAP, S 180P-50 SL<E, Z, K>
R504	87-025-469-089		RES, NF2. 2-1/4WJ	C58	87-014-050-089		CAP, PP 510P-100 J<E, Z, K>
R505	87-025-469-089		RES, NF2. 2-1/4WJ	C60	87-010-404-089		CAP, E 4. 7-50 SME<Z>
R506	87-025-469-089		RES, NF2. 2-1/4WJ	C61	87-010-401-089		CAP, E 1-50 SME
R507	87-022-184-089		RES, METAL 0. 33-1W	C62	87-010-403-089		CAP, E 3. 3-50 SME
R508	87-022-184-089		RES, METAL 0. 33-1W	C63	87-014-057-089		CAP, PP 1000P-100 J
R561	87-025-480-080		RES, NF150-1/4W J	C64	87-010-405-089		CAP, E 10-50 SME
R562	87-025-480-080		RES, NF150-1/4W J	C67	87-010-179-089		C-CAP, S 1200P-50 B
				C68	87-010-179-089		C-CAP, S 1200P-50 B
TUNER C. B				C69	87-010-400-089		CAP, E 0. 47-50 SME
				C70	87-010-400-089		CAP, E 0. 47-50 SME
				C71	87-010-184-089		C-CAP, S 3300P-50 B
C1	87-010-312-089		C-CAP, S 15P-50 CH	C72	87-010-184-089		C-CAP, S 3300P-50 B
C2	87-010-197-089		C-CAP, S 0. 01-25 B<HM>	C73	87-010-401-089		CAP, E 1-50 SME
C3	87-010-197-089		C-CAP, S 0. 01-25 B	C74	87-010-401-089		CAP, E 1-50 SME
C4	87-010-197-089		C-CAP, S 0. 01-25 B	C75	87-010-248-089		CAP, E 220-10 SME
C5	87-010-197-089		C-CAP, S 0. 01-25 B	C76	87-010-312-080		C-CAP, S 15P-50 CH<E, HR, Z, K>
C6	87-010-197-089		C-CAP, S 0. 01-25 B	C76	87-010-156-089		C-CAP, S 15P-50 SL<K, HM>
C7	87-010-147-089		C-CAP, S 3P-50 CH<Z>	C77	87-010-197-089		C-CAP, S 0. 01-25 B
C7	87-010-150-089		C-CAP, S 6P-50 CH<EXCEPT Z>	C78	87-010-197-089		C-CAP, S 0. 01-25 B
C8	87-018-102-089		CAP, TC-U 6. 8P-50 SL<EXCEPT Z>	C79	87-010-197-089		C-CAP, S 0. 01-25 B
C9	87-010-158-089		C-CAP, S 22P-50 SL	C80	87-010-260-089		CAP, E 47-25 SME
C10	87-010-154-089		C-CAP, S 10P-50 CH	C81	87-010-197-089		C-CAP, S 0. 01-25 B<HM>
C11	87-010-312-089		C-CAP, S 15P-50 CH	C81	87-010-186-089		C-CAP, S 4700P-50 B<E, HR, Z, K>
C12	87-010-312-089		C-CAP, S 15P-50 CH	C82	87-010-401-089		CAP, E 1-50 SME
C13	87-010-197-089		C-CAP, S 0. 01-25 B	C83	87-015-762-089		C-CAP, 68P SL
C14	87-010-146-089		C-CAP, S 2P-50 CH	C84	87-010-164-089		C-CAP, S 68P-50 SL
C15	87-010-145-089		C-CAP, S 1P-50 CH<EXCEPT Z>	C85	87-010-164-089		C-CAP, S 68P-50 SL
C15	87-010-148-089		C-CAP, S 4P-50 CH<Z>	C86	87-018-134-089		CAP, TC-U 0. 01-16 Y
C16	87-010-154-089		C-CAP, S 10P-50 CH<EXCEPT Z>	C87	87-010-263-089		CAP, E 100-10
C16	87-010-149-089		C-CAP, S 5P-50 CH<Z>	C89	87-010-263-089		CAP, E 100-10
C17	87-010-197-089		C-CAP, S 0. 01-25 B	C100	87-010-197-089		C-CAP, S 0. 01-25 B
C18	87-010-170-089		C-CAP, S 220P-50 SL	C101	87-010-197-089		C-CAP, S 0. 01-25 B
C19	87-010-197-089		C-CAP, S 0. 01-25 B	C102	87-010-311-089		C-CAP, S 12P-50 CH<E, Z, K>
C20	87-010-197-089		C-CAP, S 0. 01-25 B	C103	87-010-197-089		C-CAP, S 0. 01-25 B<E, K>
C21	87-010-197-089		C-CAP, S 0. 01-25 B	C103	87-010-311-089		C-CAP, S 12P-50 CH<Z>
C22	87-010-400-089		CAP, E 0. 47-50 SME	C105	87-010-146-089		C-CAP, S 2P-50 CH<Z, HM>
C23	87-010-197-089		C-CAP, S 0. 01-25 B	C106	87-010-145-089		C-CAP, S 1P-50 CH<Z>
C24	87-010-149-089		C-CAP, S 5P-50 CH	C150	87-010-197-089		C-CAP, S 0. 01-25 B
C25	87-010-197-089		C-CAP, S 0. 01-25 B<EXCEPT Z>	C151	87-010-197-089		C-CAP, S 0. 01-25 B
C26	87-010-312-089		C-CAP, S 15P-50 CH	C152	87-010-263-089		CAP, E 100-10
C27	87-010-197-089		C-CAP, S 0. 01-25 B	C153	87-010-197-089		C-CAP, S 0. 01-25 B
C30	87-010-401-089		CAP, E 1-50 SME	C154	87-010-263-089		CAP, E 100-10<E, HR, Z, K>
C31	87-010-197-089		C-CAP, S 0. 01-25 B	C154	87-010-384-080		CAP, E 100-25 SME<HM>
C32	87-010-197-089		C-CAP, S 0. 01-25 B	C175	87-010-197-089		C-CAP, S 0. 01-25 B<HM>
C33	87-010-405-089		CAP, E 10-50 SME	C176	87-010-197-089		C-CAP, S 0. 01-25 B<HM>
C34	87-010-178-089		C-CAP, S 1000P-50 B<Z>	C177	87-010-197-089		C-CAP, S 0. 01-25 B<HM>

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
C178	87-010-197-089		C-CAP, S 0.01-25 B(HM)	TU101	80-MT3-632-019		AM PACK 1(HR, HM)
C179	87-010-197-089		C-CAP, S 0.01-25 B(HM)	X1	87-030-163-019		VIB, XTAL 7.2MHZ(NDK)
C180	87-014-051-080		CAP, PP 560P-100 J(HM)				
C181	87-014-073-080		CAP, PP 4700P-100 J(HM)				
C182	87-010-313-080		C-CAP, S 18P-50 CH(HM)				
			CD C. B				
C183	87-010-544-080		CAP, E 0.1-50 (HM)	C1	87-010-178-089		C-CAP, S 1000P-50 B
C184	87-018-111-080		C-CAP, S 4700P-50 B(HM)	C2	87-010-263-089		CAP, E 100-10
C185	87-012-150-080		C-CAP, S 20P-50 CH(HM)	C3	87-010-265-089		CAP, E 33-16 SME
C186	87-010-263-080		CAP, E 100-10 (HM)	C6	87-010-198-089		C-CAP, S 0.022-25 B
C200	87-010-167-080		C-CAP, S 120P-50 SL(HM)	C7	87-010-196-089		C-CAP, S 0.1-25 F
C200	87-018-123-089		CAP, TC-U 220P-50 B(HR)	C10	87-010-182-089		C-CAP, S 2200P-50 B
C201	87-010-171-089		C-CAP, S 270P-50 SL(E, K, HM)	C11	87-010-196-089		C-CAP, S 0.1-25 F
C230	87-010-263-080		CAP, E 100-10 (HM)	C12	87-010-196-089		C-CAP, S 0.1-25 F
C231	87-012-158-080		C-CAP, S 390P-50 CH(HM)	C13	87-010-196-089		C-CAP, S 0.1-25 F
C232	87-018-126-089		CAP, TC-U 390P-50B(HM)	C14	87-010-404-089		CAP, E 4.7-50 SME
C233	87-018-111-080		C-CAP, S 27P-50 SL(HM)	C15	87-010-193-089		C-CAP, S 0.033-25 F
C240	87-010-315-080		C-CAP, S 27P-50 CH(HM)	C16	87-010-197-089		C-CAP, S 0.01-25 B
C270	87-010-197-089		C-CAP, S 0.01-25 B(HM)	C17	87-010-263-089		CAP, E 100-10
CF1	87-030-105-010		FLTR, BPMB6A(Z)	C18	87-010-197-089		C-CAP, S 0.01-25 B
CF2	82-799-621-019		CF MS2-A (Z)	C19	87-010-402-089		CAP, E 2.2-50 SME
CF3	87-008-261-019		FLTR, SFE10.7MA5-A	C20	87-010-265-089		CAP, E 33-16 SME
CF4	87-008-261-019		FLTR, SFE10.7MA5-A	C21	87-010-263-089		CAP, E 100-10
CF5	82-794-670-019		BFU 450C4N(E, HR, Z, K)	C22	87-010-197-089		C-CAP, S 0.01-25 B
D1	87-026-360-089		C-VAR1CAP, KV1430	C23	87-010-193-089		C-CAP, S 0.033-25 F
D2	87-026-360-089		C-VAR1CAP, KV1430	C24	87-010-197-089		C-CAP, S 0.01-25 B
D3	87-026-360-089		C-VAR1CAP, KV1430	C25	87-010-193-089		C-CAP, S 0.033-25 F
D6	81-754-634-019		VARI-CAP, KV1260(E, Z, K)	C26	87-010-197-089		C-CAP, S 0.01-25 B
D6	87-017-568-080		VARI-CAP, SVC342M(HM)	C28	87-010-196-089		C-CAP, S 0.1-25 F
D7	87-026-360-089		C-VAR1CAP, KV1430(Z)	C29	87-010-263-089		CAP, E 100-10
J1	81-631-646-019		ANT TERM 2P PAL(E, Z, K)	C30	87-010-992-089		C-CAP, S 0.047-25 B
J1	87-033-214-019		ANT TERM 4P(JT) (HR, HM)	C31	87-010-180-089		C-CAP, S 1500P-50 B
J2	81-754-629-019		CONNECTOR XH M 2P (UL)(E, K)	C32	87-010-263-089		CAP, E 100-10
L1	87-006-209-019		COIL, ANT FM 3/4 T	C33	87-010-197-089		C-CAP, S 0.01-25 B
L2	87-006-210-019		COIL, ANT FM 2 3/4 T	C34	87-012-156-089		C-CAP, 220P CH
L3	87-006-200-019		COIL, RF FM 3-1/2T, L5	C35	87-010-197-089		C-CAP, S 0.01-25 B
L4	87-006-201-019		COIL, RF FM3-1/2TS, L5	C36	87-010-404-089		CAP, E 4.7-50 SME
L5	87-006-201-019		COIL, RF FM3-1/2TS, L5 (Z)	C37	87-010-197-089		C-CAP, S 0.01-25 B
L6	87-006-205-019		COIL, OSC FM (7K)	C38	87-010-312-089		C-CAP, S 15P-50 CH
L7	87-003-231-089		C-COIL, S1UH	C39	87-010-312-089		C-CAP, S 15P-50 CH
L8	87-008-427-019		COIL, FMIFT (4T)	C43	87-010-318-089		C-CAP, S 47P-50 CH
L9	81-631-611-019		COIL, QUAD (SINGLE)	C44	87-010-318-089		C-CAP, S 47P-50 CH
L11	87-008-452-019		FILTER CFAZ-450	C45	87-010-318-089		C-CAP, S 47P-50 CH
L12	87-006-207-019		COIL, ANT MW (3B)(E, Z, K)	C46	87-010-318-089		C-CAP, S 47P-50 CH
L12	87-006-236-019		COIL, ANT MW (SG)(HM)	C47	87-010-318-089		C-CAP, S 47P-50 CH
L13	87-006-208-019		COIL, ANT LW(E, Z, K)	C48	87-010-318-089		C-CAP, S 47P-50 CH
L13	87-006-238-019		COIL, ANT SW2 (SG)(HM)	C49	87-010-197-089		C-CAP, S 0.01-25 B
L14	82-006-237-019		COIL, ANT SW1 (SG)(HM)	C50	87-010-248-089		CAP, E 220-10 SME
L14	82-794-687-019		COIL, OSC (E, Z, K)	C51	87-010-405-089		CAP, E 10-50 SME
L15	81-631-643-019		COIL, 1 POLE MPX	C52	87-010-405-089		CAP, E 10-50 SME
L16	81-631-643-019		COIL, 1 POLE MPX	C53	87-010-428-089		C-CAP, S 0.015-25 B
L17	82-794-688-019		COIL, OSC LW(E, Z, K)	C54	87-010-428-089		C-CAP, S 0.015-25 B
L17	87-007-326-010		COIL, OSC MW (SG)(HM)	C55	87-010-178-089		C-CAP, S 1000P-50 B
L18	87-008-421-019		COIL, FILTER AMTI-BIRDIE(Z)	C56	87-010-178-089		C-CAP, S 1000P-50 B
L18	87-007-328-010		COIL, OSC SW2 (SG)(HM)	C57	87-010-404-089		CAP, E 4.7-50 SME
L19	87-003-098-089		COIL, 2. 2UH(E, HR, Z, K)	C58	87-010-196-089		C-CAP, S 0.1-25 F
L19	87-007-327-010		COIL, OSC SW1 (SG)(HM)	C59	87-010-221-089		CAP, E 470-10
L20	87-003-098-080		COIL, 2. 2UH(HM)	C60	87-010-197-089		C-CAP, S 0.01-25 B
L21	87-005-372-080		COIL, S 1MH TAGP(HM)	C61	87-010-196-089		C-CAP, S 0.1-25 F
L22	87-005-372-080		COIL, S 1MH TAGP(HM)	C62	87-010-194-089		C-CAP, S 0.047-25 F
SFR1	87-024-173-080		SFR, 22K DIA6 V(HM)	C64	87-010-196-089		C-CAP, S 0.1-25 F
SFR1	87-024-174-089		SFR, 33K DIA6 V(E, HR, Z, K)	C65	87-010-197-089		C-CAP, S 0.01-25 B
SFR2	87-024-171-089		SFR, 4. 7K DIA6 V	C66	87-010-221-089		CAP, E 470-10
SFR3	87-024-173-080		SFR, 22K DIA6 V(HM)	C67	87-010-196-089		C-CAP, S 0.1-25 F
TC1	87-011-219-089		CAP, TRIMMER 10P VCT	C68	87-010-196-089		C-CAP, S 0.1-25 F
TC2	87-011-219-089		CAP, TRIMMER 10P VCT	C69	87-010-197-089		C-CAP, S 0.01-25 B
TC3	87-011-219-089		CAP, TRIMMER 10P VCT(Z)	C70	87-010-384-089		CAP, E 100-25 SME
TC4	87-011-220-089		CAP, TRIMMER 20P VCT(E, Z, K, HM)	C71	87-010-197-089		C-CAP, S 0.01-25 B
TC5	87-011-221-089		TRIMMER, 30P VCT51	C72	87-010-221-089		CAP, E 470-10
TC6	87-011-221-089		TRIMMER, 30P VCT51 (E, Z, K, HM)	C75	87-010-196-089		C-CAP, S 0.1-25 F
TC7	87-011-221-089		TRIMMER, 30P VCT51 (HM)	C76	87-010-248-089		CAP, E 220-10 SME

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
C77	87-010-197-089		C-CAP, S 0.01-25 B	C921	87-010-178-089		C-CAP, S 1000P-50 B<Z>
C78	87-010-197-089		C-CAP, S 0.01-25 B	C922	87-010-178-089		C-CAP, S 1000P-50 B<Z>
C79	87-010-197-089		C-CAP, S 0.01-25 B	C923	87-015-819-089		C-CAP, 0.01<Z>
C80	87-010-263-089		CAP, E 100-10				
C81	87-010-197-089		C-CAP, S 0.01-25 B				
C82	87-010-197-089		C-CAP, S 0.01-25 B		MOTOR-2 C. B		
L1	87-003-102-089		COIL, 10UH		M3	87-045-305-019	MOTOR, RF-500TB
SFR1	87-024-176-089		SFR, 100K DIA6 V				
SFR2	87-024-175-089		SFR, 47K DIA6 V				
SFR3	87-024-173-089		SFR, 22K DIA6 V				
X1	81-592-641-089		CERALOCK 16.93MX				
				FC20	83-CT2-627-019		FLAT CABLE, 2P D/C
				SW20	87-036-252-019		SW, PUSH SPPB 51
DISPLAY C. B							
C1	87-010-263-089		CAP, E 100-10				
C2	87-010-401-089		CAP, E 1-50 SME				
C3	87-010-071-089		CAP, E 1-50 5L				
C4	87-015-835-089		C-CAP, 0.047 D				
C8	87-010-197-089		C-CAP, S 0.01-25 B				
C15	87-010-179-089		C-CAP, S 1200P-50 B				
C16	87-012-358-080		C-CAP, S 0.47-10FZ				
C17	87-010-264-089		CAP, E 100-10 5L				
C18	87-010-179-089		C-CAP, S 1200P-50 B				
C19	87-018-208-089		CAP, TC-U 0.047-50 F				
C21	87-015-688-089		CAP, E 4.7-35 7L				
C919	87-010-178-089		C-CAP, S 1000P-50 B<Z>				
C920	87-010-178-089		C-CAP, S 1000P-50 B<Z>				
C924	87-010-197-089		C-CAP, S 0.01-25 B<Z>				
C925	87-010-197-089		C-CAP, S 0.01-25 B<Z>				
C926	87-010-197-089		C-CAP, S 0.01-25 B<Z>				
C927	87-018-134-080		CAP, TC-U 0.01-16 Y<HM>				
FC1	83-CT2-625-019		CABLE, FFC 1.25-10P				
FL1	83-CT2-601-019		FL, BJ184GK				
J1	87-009-216-019		JACK, DIA 3.5 STS				
L1	87-003-105-089		COIL, 0.22UH				
LED1	87-017-369-080		LED, SEL2510C TP-6				
LED2	87-017-369-080		LED, SEL2510C TP-6				
LED3	87-017-369-080		LED, SEL2510C TP-6				
LED4	87-017-369-080		LED, SEL2510C TP-6				
LED5	87-017-369-080		LED, SEL2510C TP-6				
LED6	87-017-369-080		LED, SEL2510C TP-6				
LED7	87-017-369-080		LED, SEL2510C TP-6				
LED8	87-017-369-080		LED, SEL2510C TP-6				
LED9	87-017-369-080		LED, SEL2510C TP-6				
LED10	87-017-369-080		LED, SEL2510C TP-6				
LED11	89-VW5-607-089		LED, SLH-38VC, 70F-90				
SW1	87-036-170-089		SW, TACT				
SW2	87-036-170-089		SW, TACT				
SW3	87-036-170-089		SW, TACT				
SW4	87-036-170-089		SW, TACT				
SW5	87-036-170-089		SW, TACT				
SW6	87-036-170-089		SW, TACT				
SW7	87-036-170-089		SW, TACT				
SW8	87-036-170-089		SW, TACT				
SW9	87-036-170-089		SW, TACT				
SW10	87-036-170-089		SW, TACT				
SW11	87-036-170-089		SW, TACT				
SW12	87-036-170-089		SW, TACT				
SW13	87-036-170-089		SW, TACT				
SW14	87-036-170-089		SW, TACT				
SW15	87-036-170-089		SW, TACT				
SW16	87-036-170-089		SW, TACT				
SW17	87-036-170-089		SW, TACT				
SW18	87-036-170-089		SW, TACT				
X1	87-030-233-089		VIB, CER KBR 4.19MKS				
				C401	87-010-182-089		C-CAP, S 2200P-50 B
				C403	87-012-154-089		C-CAP, S 150P-50 CH
				C404	87-010-401-089		CAP, E 1-50 SME
				C405	87-010-545-089		CAP, E 0.22-50 SME
				C406	87-010-178-089		C-CAP, S 1000P-50 B
				C407	87-010-401-089		CAP, E 1-50 SME
				C408	87-010-260-089		CAP, E 47-25 SME
				C409	87-010-248-089		CAP, E 220-10 SME
				C410	87-010-193-089		C-CAP, S 0.033-25 F<HR, HM>
				C411	87-010-175-089		C-CAP, S 560P-50 SL<HR, HM>
				C412	87-010-187-089		C-CAP, S 5600P-50 B<HR, HM>
				C413	87-010-196-089		C-CAP, S 0.1-25 F<HR, HM>
				C414	87-010-260-089		CAP, E 47-25 SME<HR, HM>
				C415	87-012-142-089		C-CAP, S 0.33-16F<HR, HM>
				C416	87-012-142-089		C-CAP, S 0.33-16F<HR, HM>
				C417	87-010-196-089		C-CAP, S 0.1-25 F<HR, HM>
HP C. BP							
C20	87-010-263-089		CAP, E 100-10				

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
C418	87-010-187-089		C-CAP, S 5600P-50 B (HR, HM)	C426	87-012-157-089		C-CAP, S 330P-50 CH (HR, HM)
C419	87-010-178-089		C-CAP, S 1000P-50 B (HR, HM)	C431	87-010-405-089		CAP, E 10-50 SME
C420	87-010-545-080		CAP, E 0.22-50 SME (HR, HM)	C927	87-010-178-089		C-CAP, S 1000P-50 B (Z)
C421	87-010-197-089		C-CAP, S 0.01-25 B (HR, HM)	J401	87-009-216-019		JACK, DIA 3.5 STS
C423	87-010-263-089		CAP, E 100-10 (HR, HM)	L401	87-005-454-080		COIL, 680UH FLR50K (HR, HM)
C424	87-010-196-089		C-CAP, S 0.1-25 F (HR, HM)	VR601	87-024-618-019		VR, 10KA RK09K111 (HR, HM)
C425	87-012-157-089		C-CAP, S 330P-50 CH (HR, HM)	VR602	87-024-619-019		VR, 10KB RK09K111 (HR, HM)

### TRANSISTOR ILLUSTRATION (CX - L9)

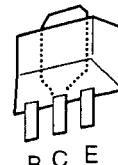
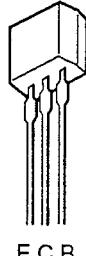
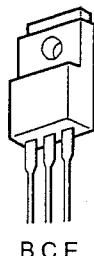


2SA1162      DTA114YK  
 2SA1362      DTA144EK  
 2SC2712      DTC114EK  
 2SC2714      DTC114TK  
 2SC3265      DTC114YK  
 2SC3326      DTC124XK  
 DTA114EK      DTC144EK  
 DTA114TK

2SK211  
 2SK302

2SK209Y

2SK544E



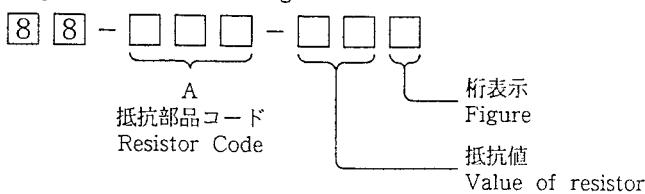
2SA933      2SB1292  
 2SA952      2SB1370  
 2SA1318  
 2SC1815  
 2SC2001  
 2SC3266

2SC1740S  
 DTA114YS

2SA1213

### ○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

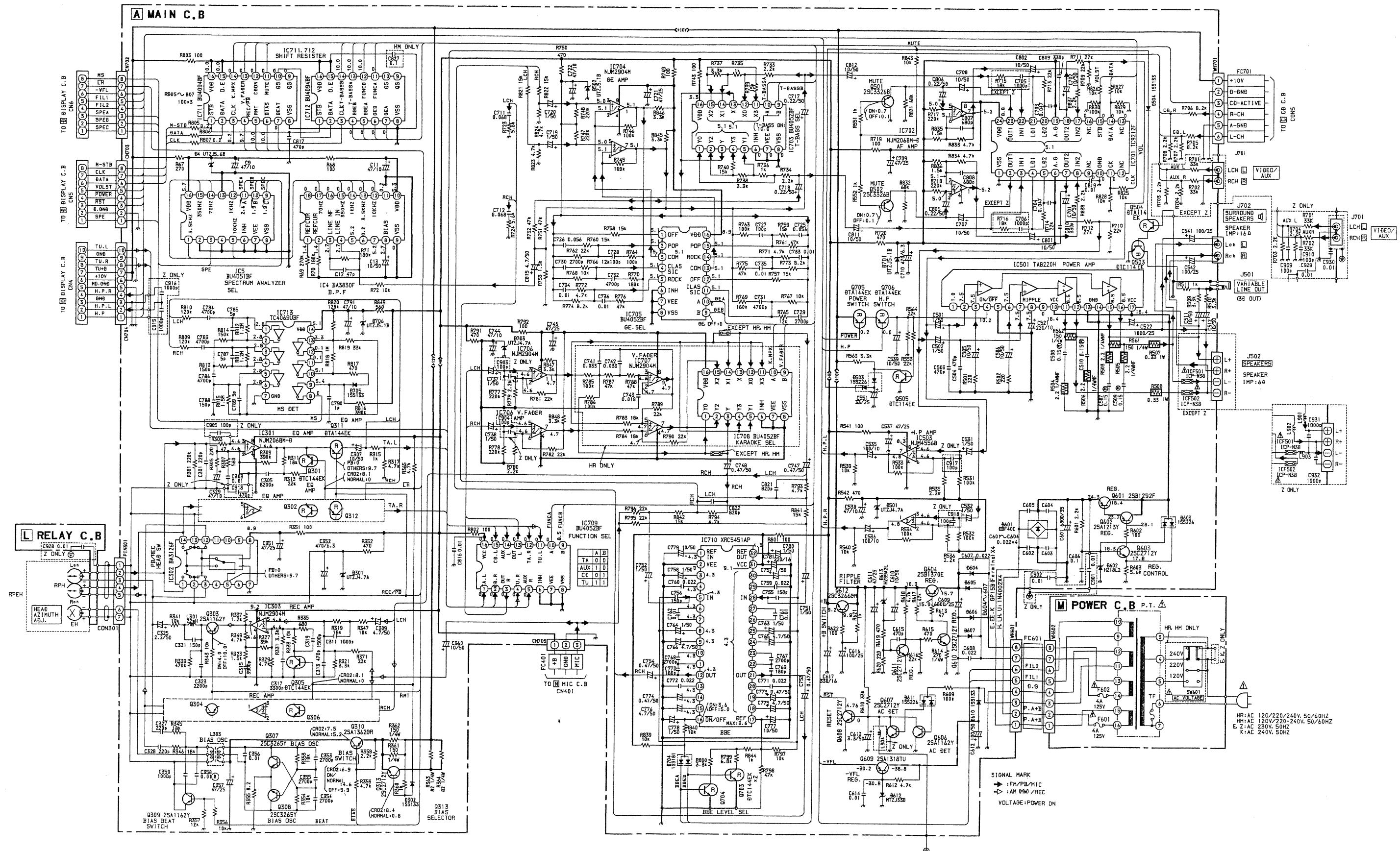
チップ抵抗部品コードの成り立ち  
 Chip Resistor Part Coding



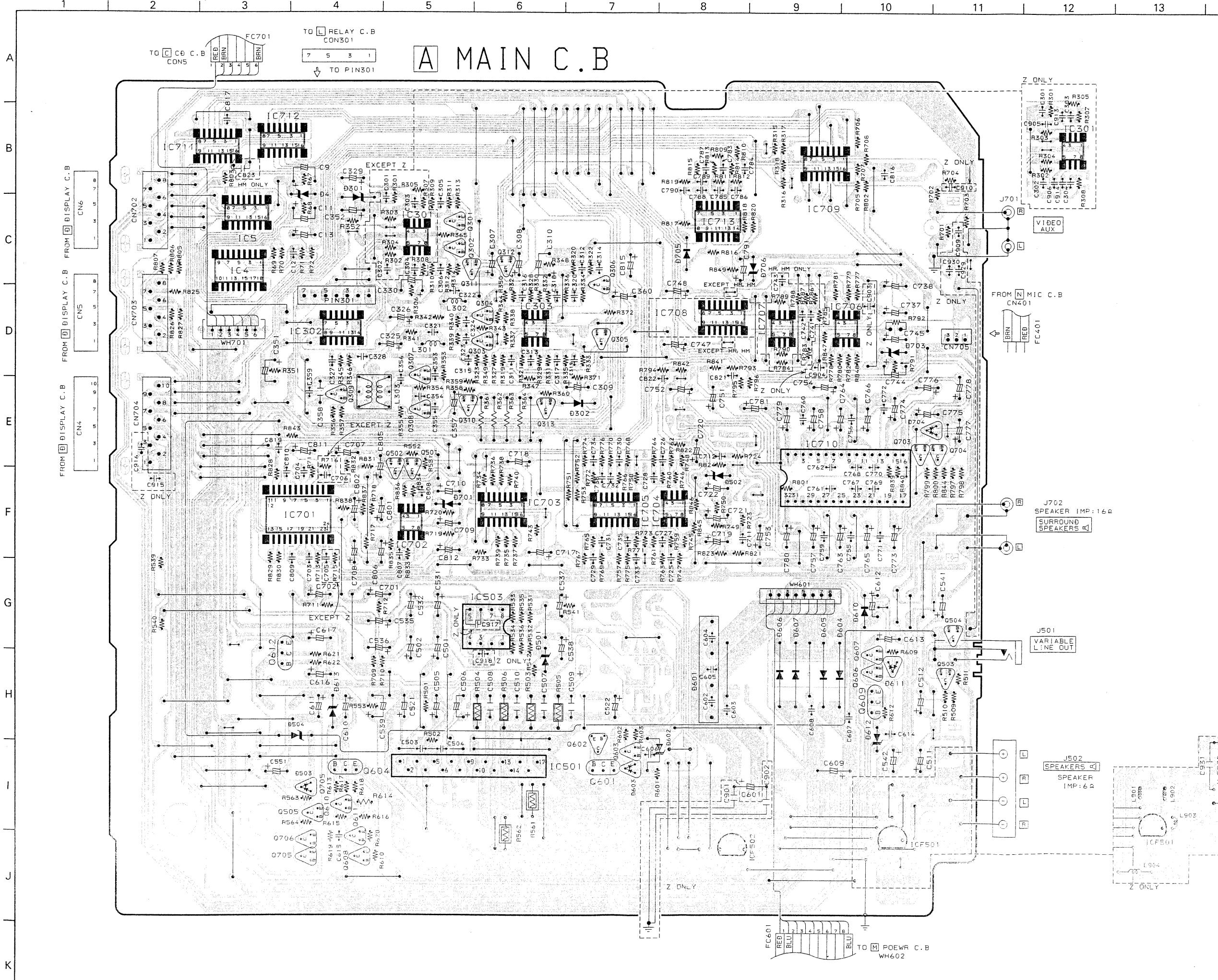
チップ抵抗  
 Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions / 尺寸 (mm)			Resistor Code : A 抵抗コード : A
				Form / 外形	L	W	
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35 108
1/10W	2125	± 5 %	CJ		2	1.25	1.45 118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7 128

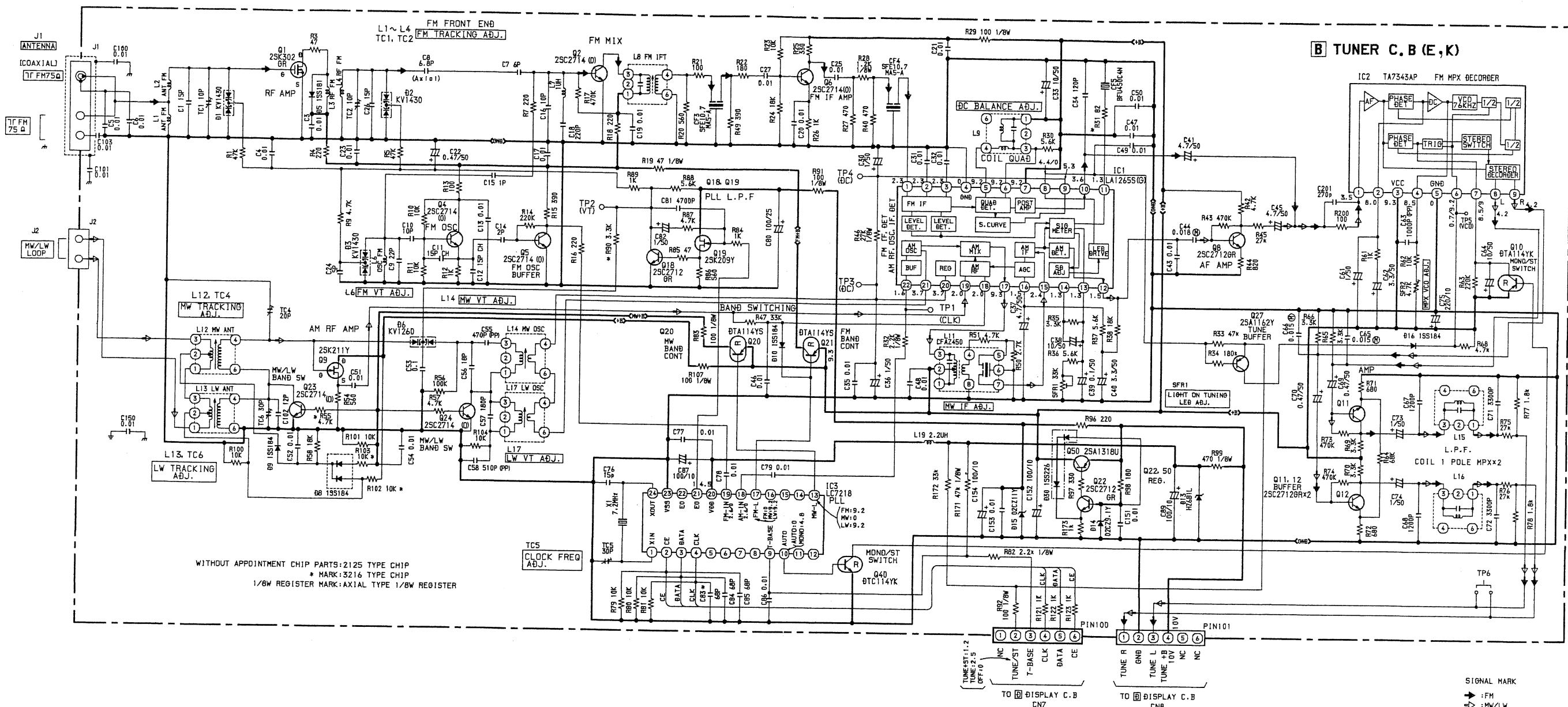
# SCHEMATIC DIAGRAM – 1 (CX – L9 : MAIN)



## WIRING – 1 (CX – L9 : MAIN)



## SCHEMATIC DIAGRAM - 2 (CX - L9 : TUNER) < E, K >



WITHOUT APPOINTMENT CHIP PARTS:2125 TYPE CHIP  
\* MARK:3216 TYPE CHIP  
1/8W REGISTER MARK:AXIAL TYPE 1/8W REGIST

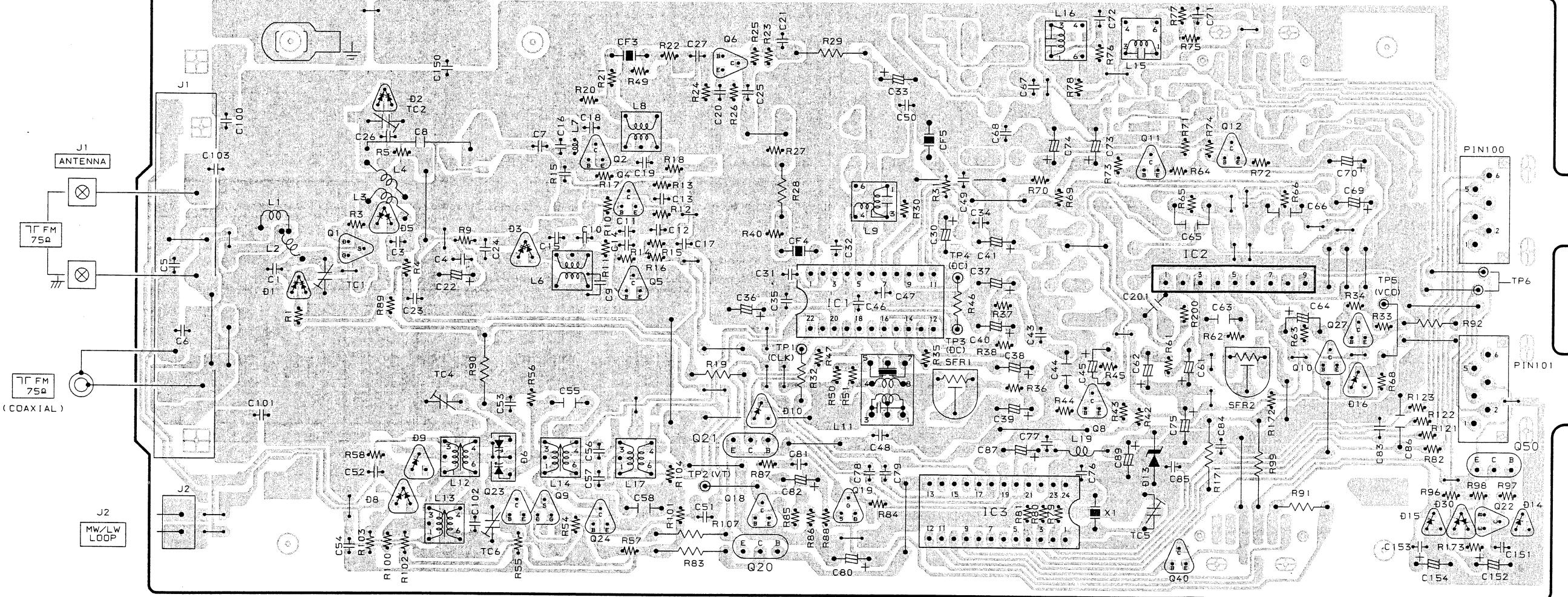
SIGNAL MARK

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

**B TUNER C.B (E, K)**

B



C

D

E

F

G

H

I

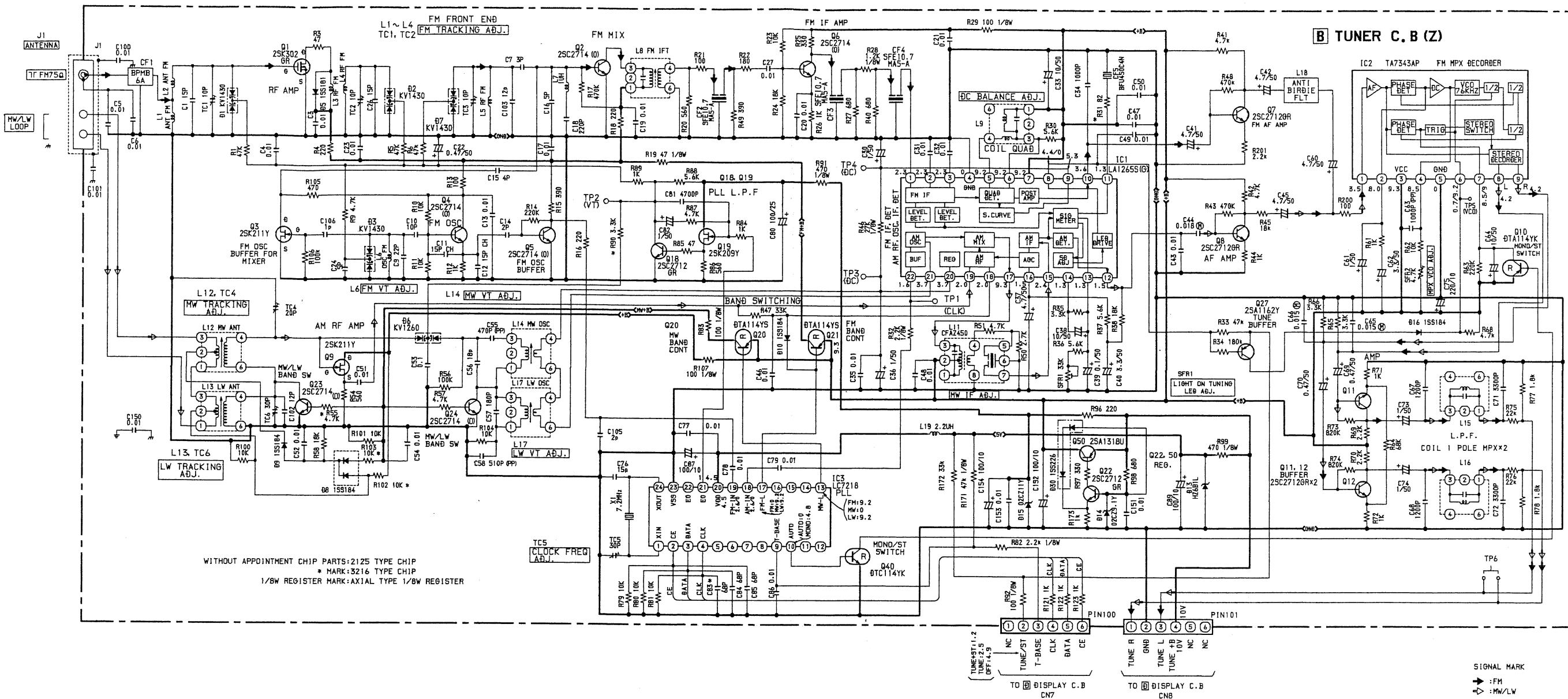
J

K

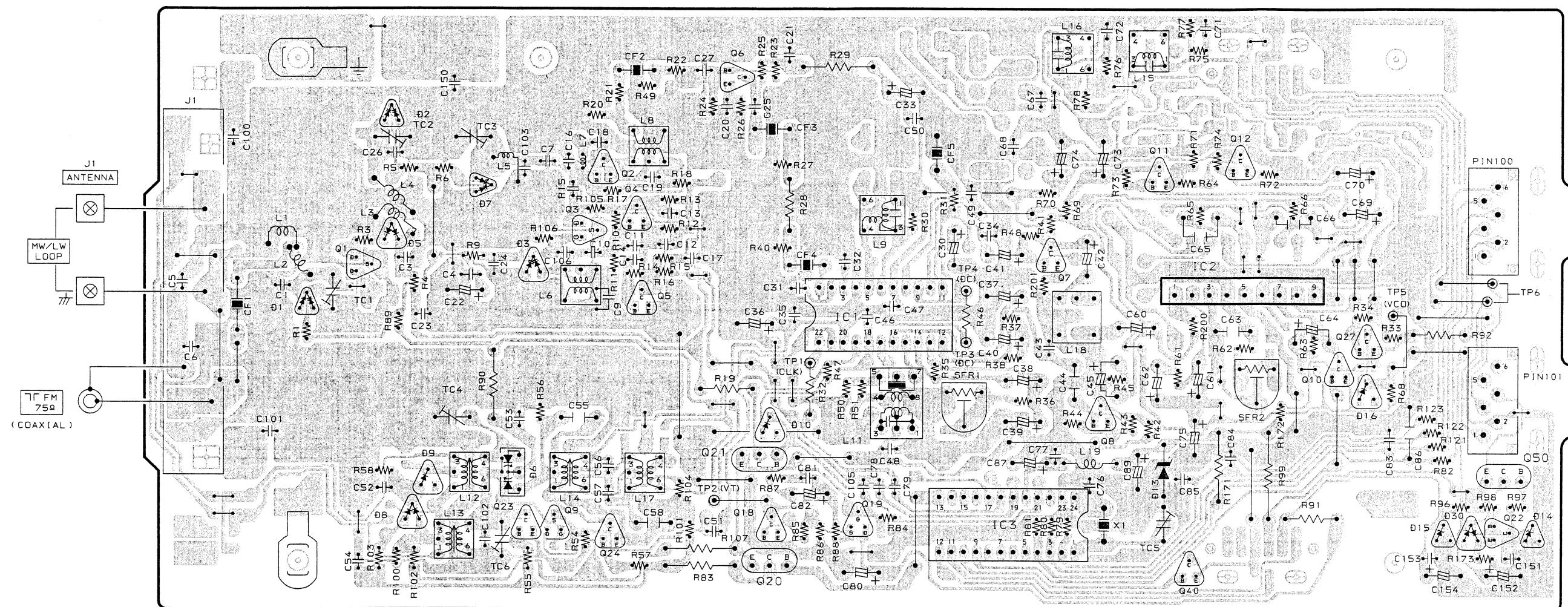
FROM **D** DISPLAY C.B.FROM **D** DISPLAY C.B.

CN7

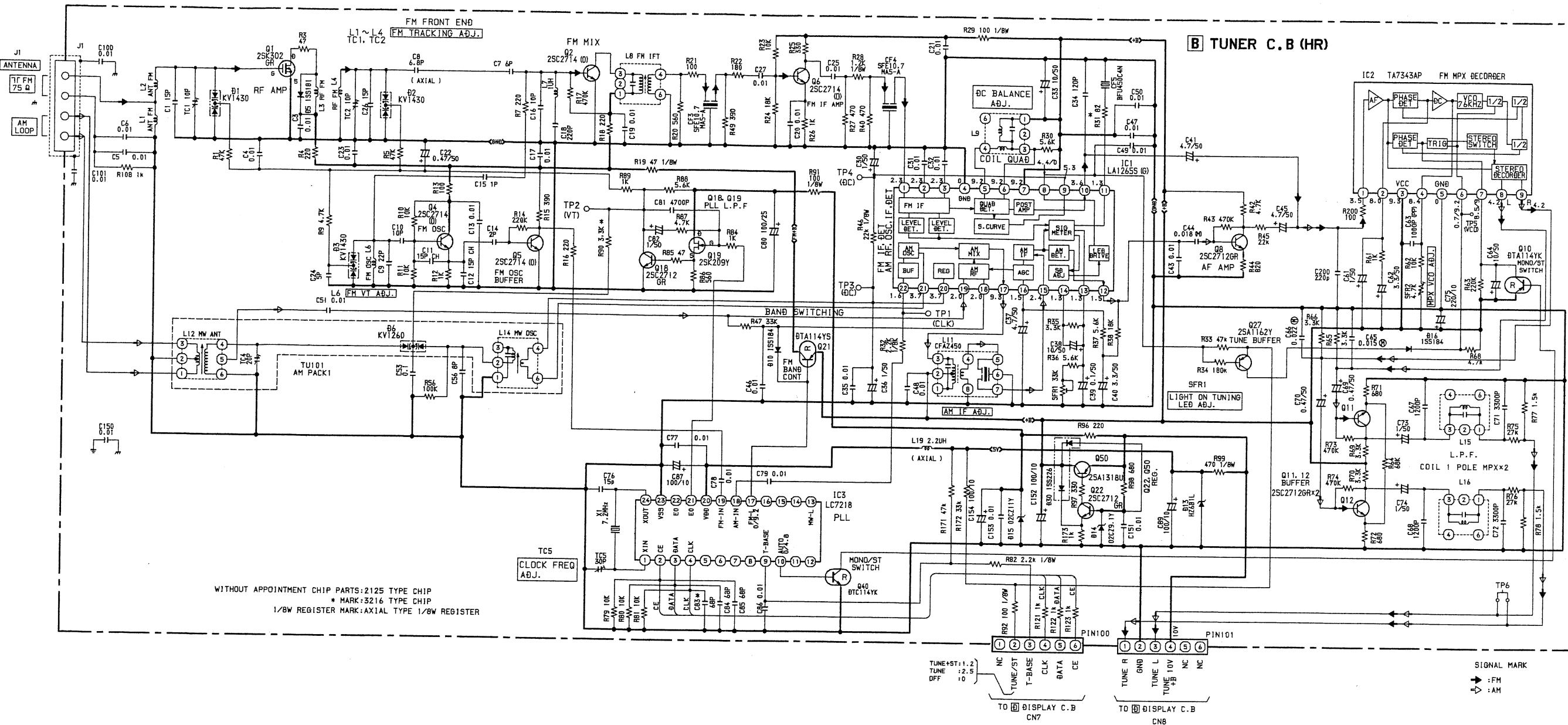
CN8



SIGNAL MARK  
 → : FM  
 ⇠ : MW/LW

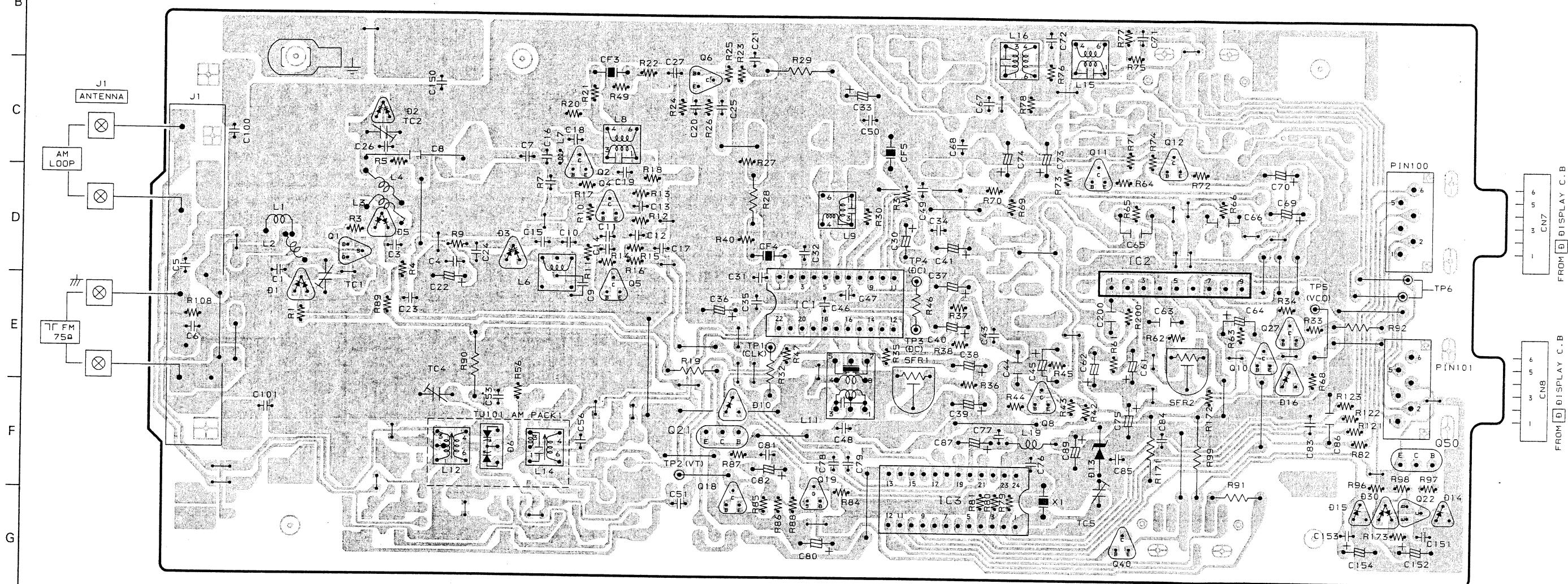
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K**B TUNER C.B (Z)**FROM **D** DISPLAY C.BFROM **D** DISPLAY C.BFROM **D** DISPLAY C.BFROM **D** DISPLAY C.BFROM **D** DISPLAY C.B

SCHEMATIC DIAGRAM – 4 (CX – L9 : TUNER) < HR >

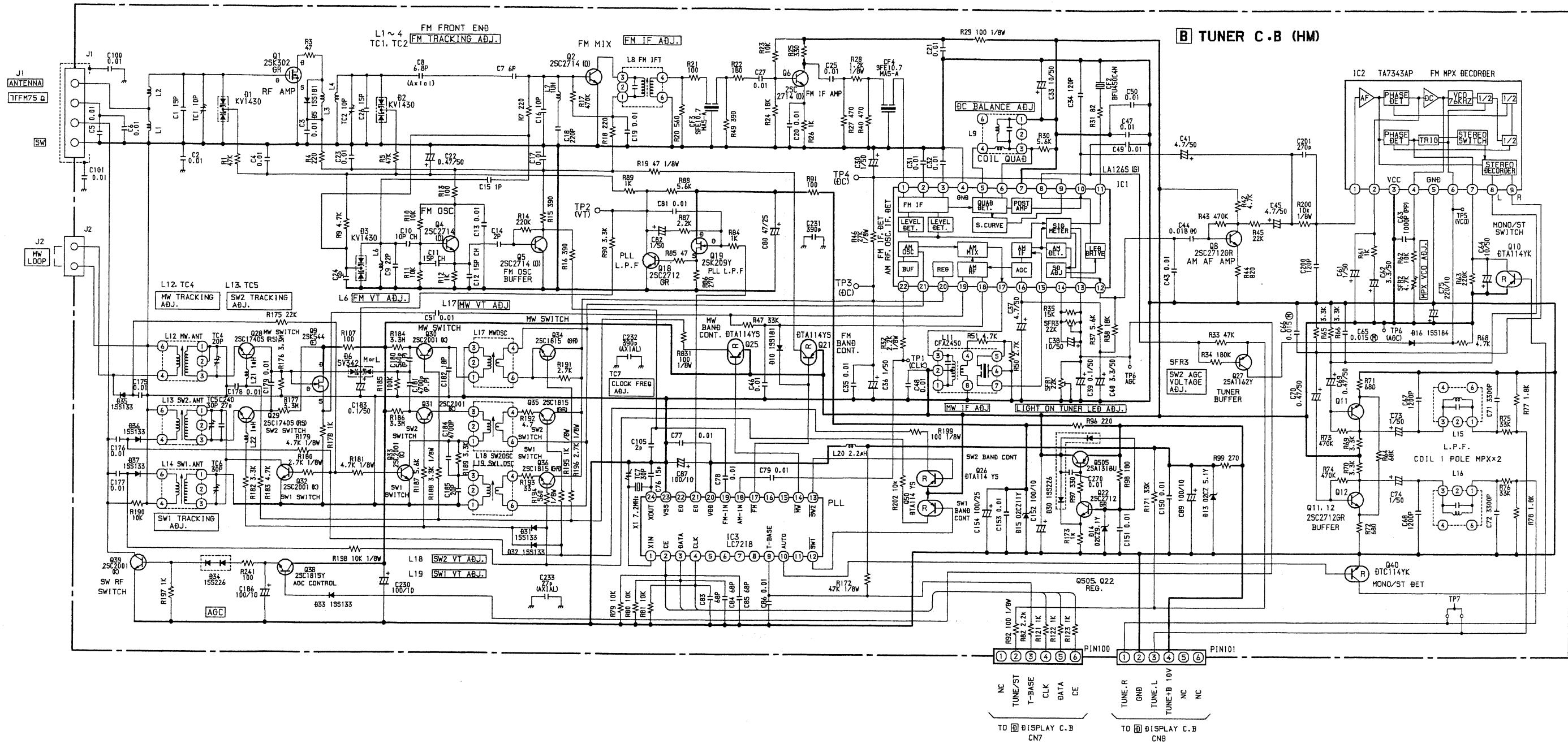


1 2 3 4 5 6 7 8 9 10 11 12 13 14

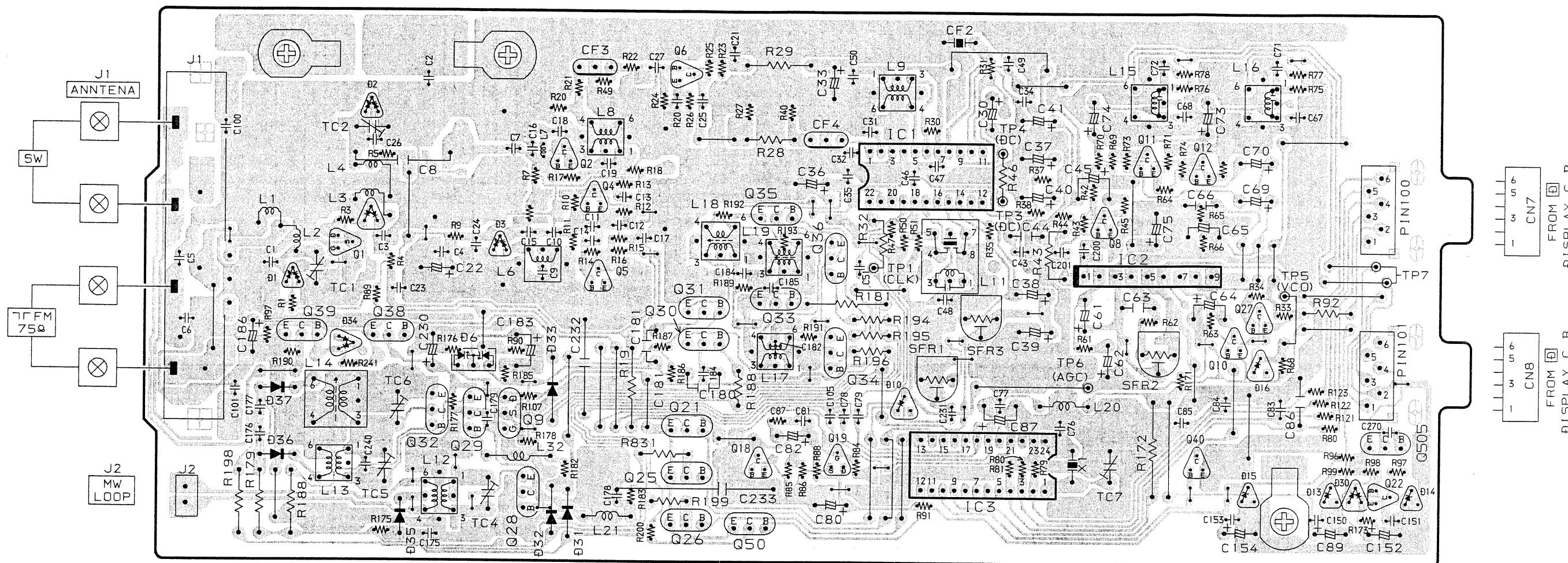
A

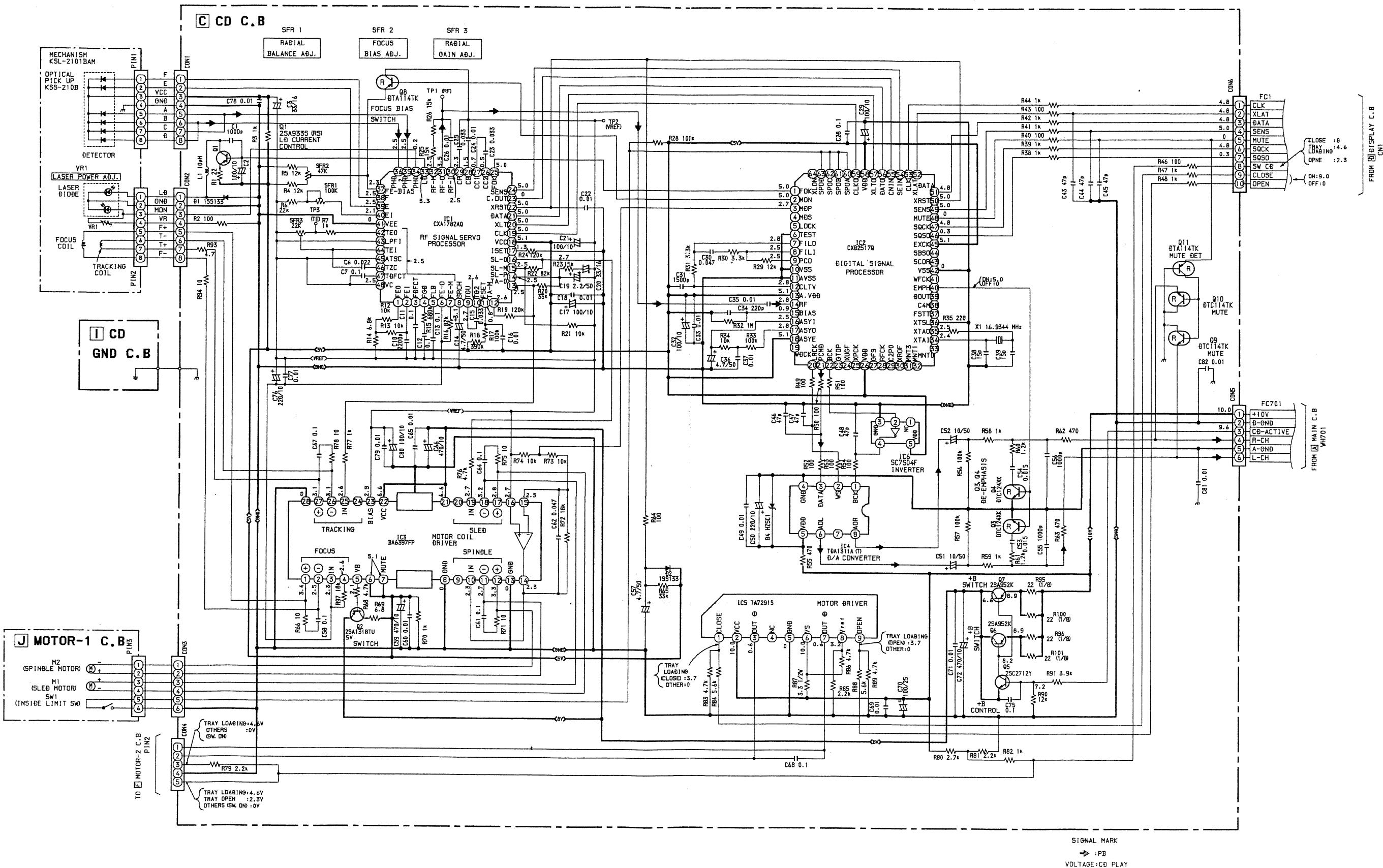
**B TUNER C.B (HR)**

SCHEMATIC DIAGRAM - 5 (CX - L9 : TUNER) < HM >



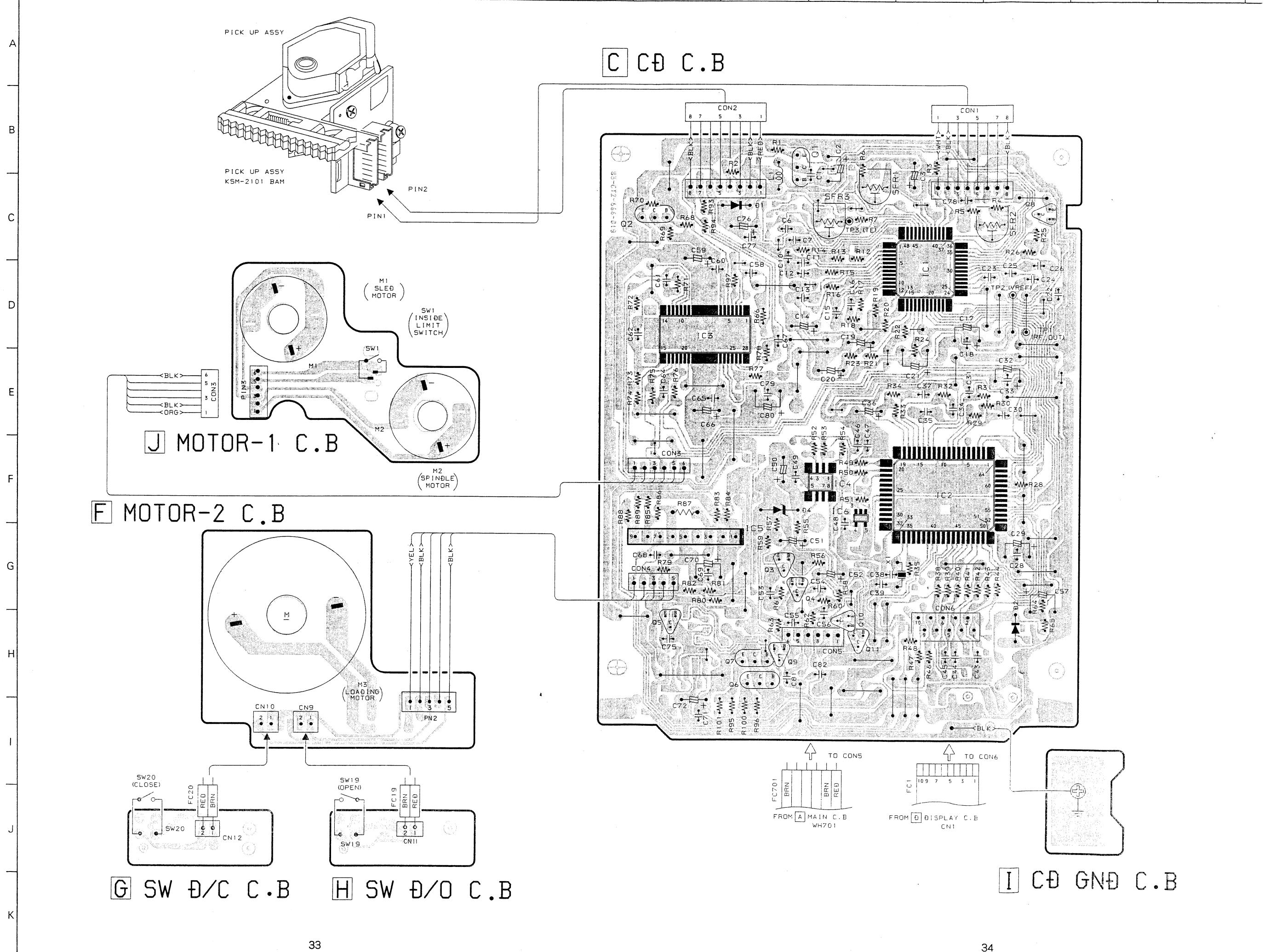
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A  
B  
C  
D  
E  
F  
G  
H  
I  
K**B TUNER C.B (HM)**

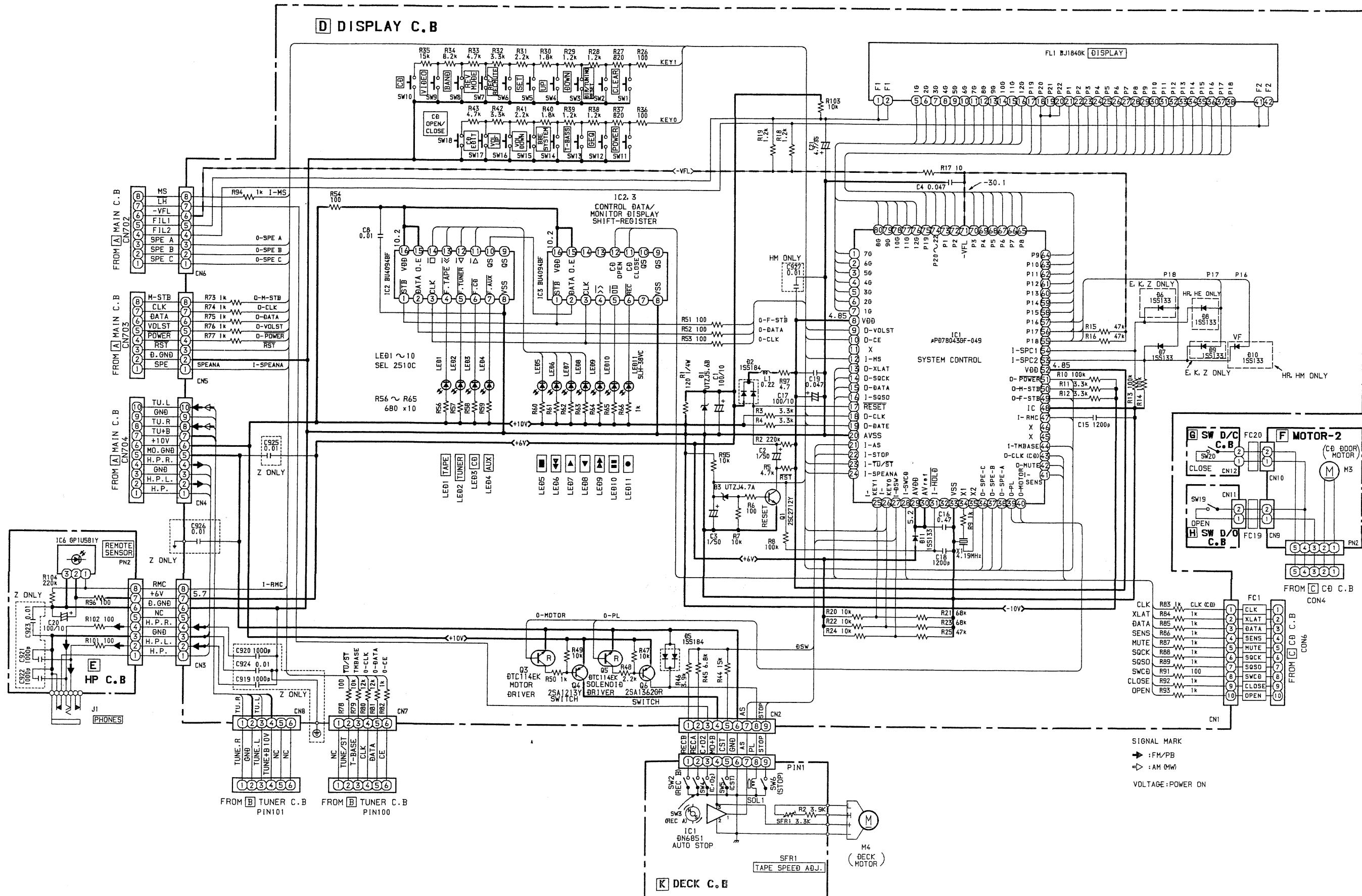


WIRING - 6 (CX - L9 : CD)

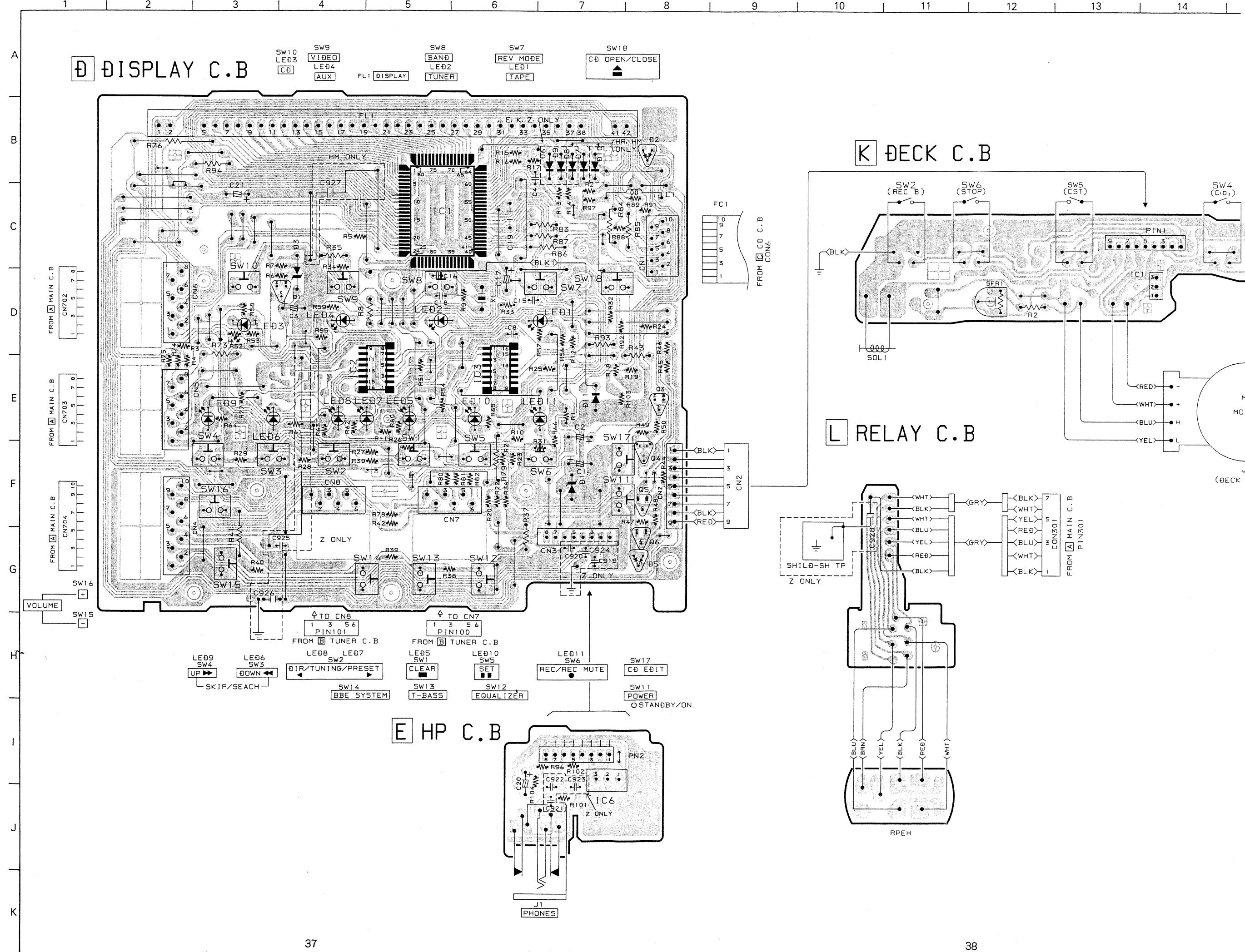
1 2 3 4 5 6 7 8 9 10 11 12 13 14



SCHEMATIC DIAGRAM – 7 (CX – L9 : DISPLAY)



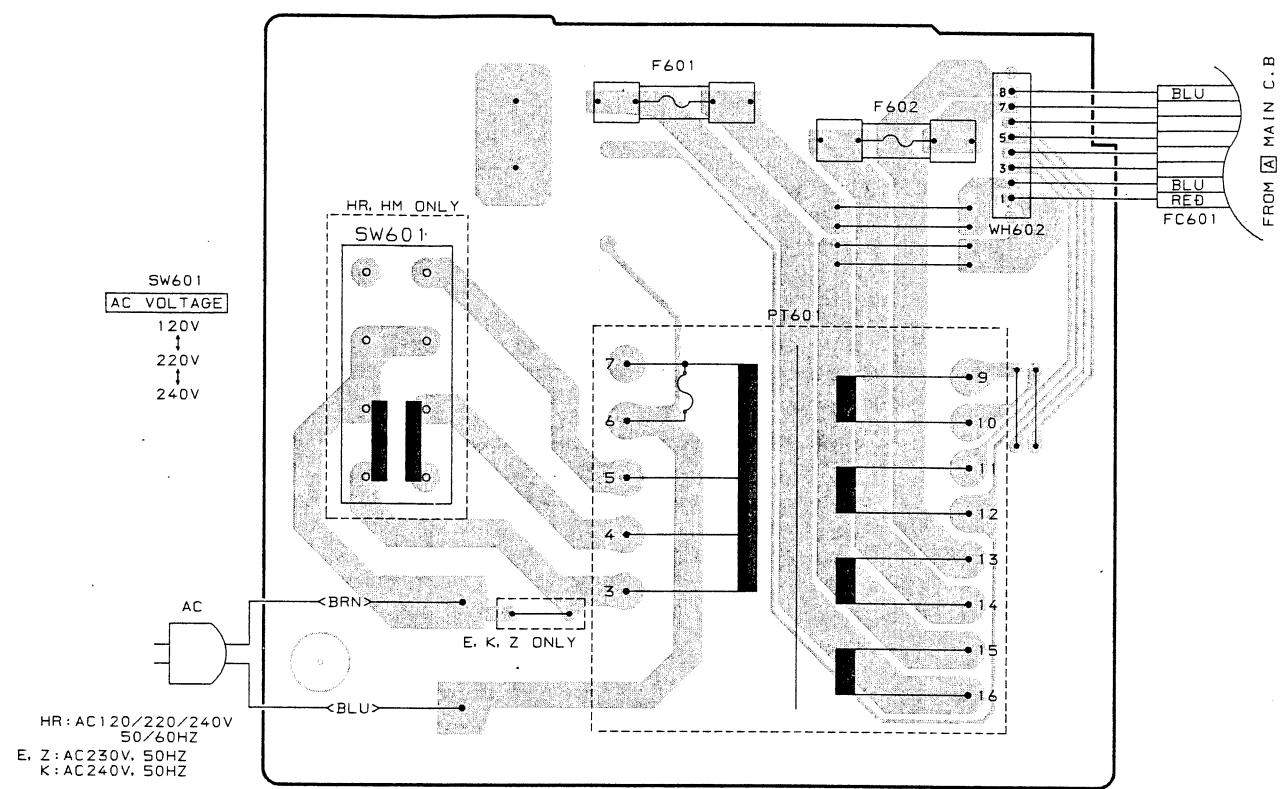
WIRING - 7 (CX - L9 : DISPLAY)



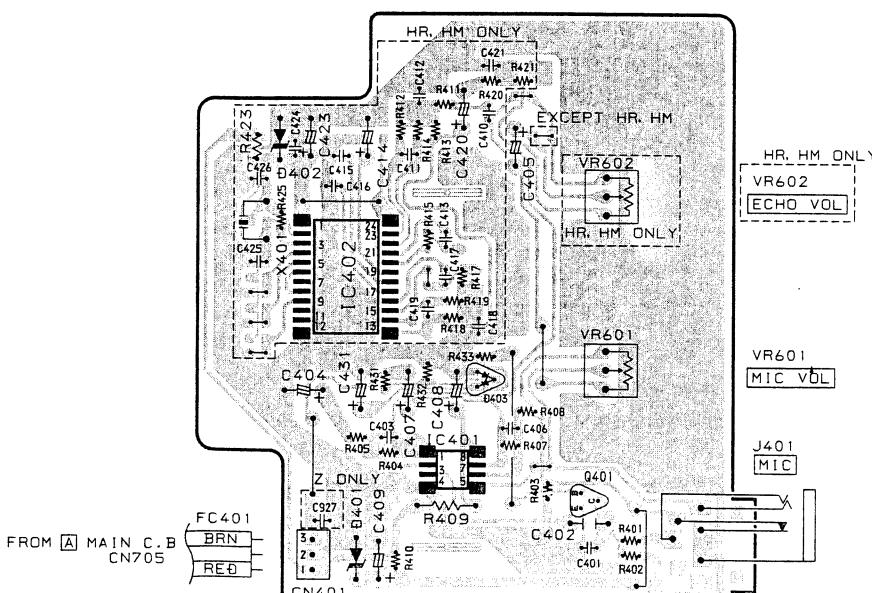
WIRING - 8 (CX - L9 : POWER, MIC)

1 | 2 | 3 | 4 | 5 | 6 | 7

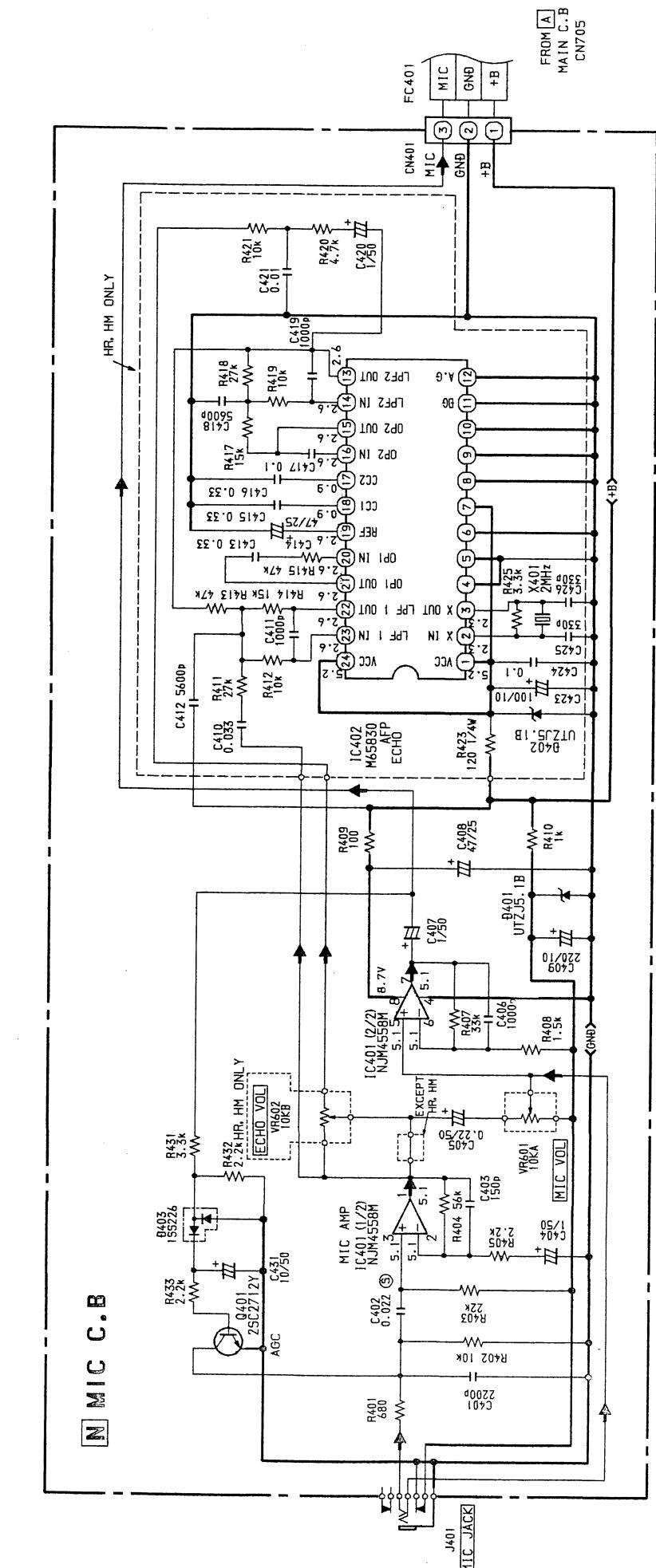
**M POWER C.B**



**N MIC C.B**

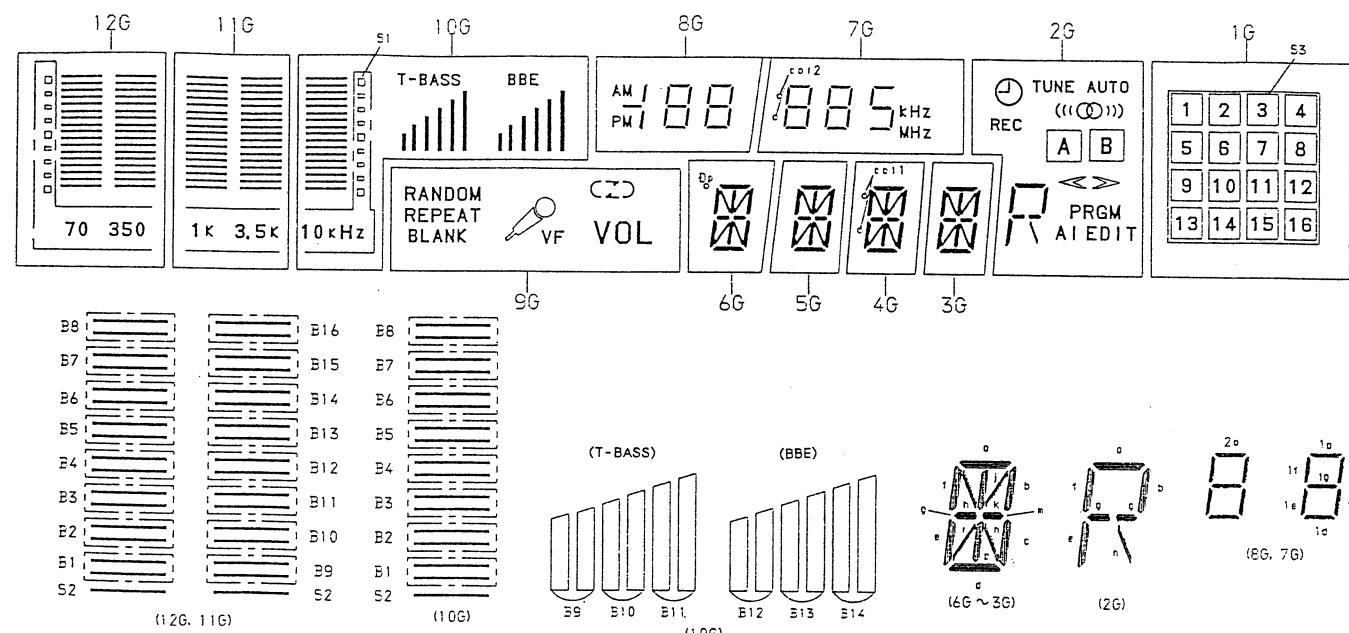


SCHEMATIC DIAGRAM - 8 (CX - L9 : MIC)



# FL (BJ184GK) GRID ASSIGNMENT / ANODE CONNECTION (CX - L9)

## GRID ASSIGNMENT



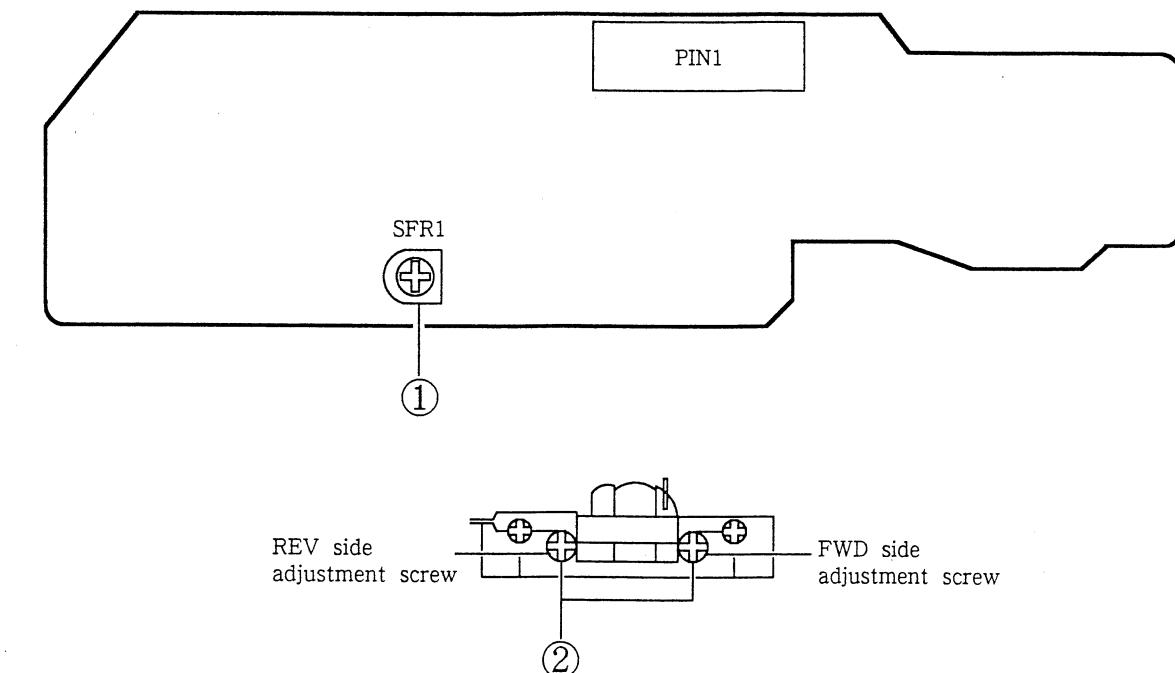
## ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	
P1	B1	B1	B1	REPEAT	2a	2a	-	-	[coll bottom]	-	TUNE	16	
P2	B2	B2	B2	RANDOM	2f	2f	n	n	n	n	n	14	
P3	B3	B3	B3	BLANK	2c	2c	r	r	r	r	A1	12	
P4	B4	B4	B4	C	2d	2d	c	c	c	c	EDIT	10	
P5	B5	B5	B5	D	1o	1o	m	m	m	m	PRGM	8	
P6	B6	B6	B6	VF	1f	1f	b	b	b	b	b	6	
P7	B7	B7	B7	VOL	1c	1c	j	j	j	j	>>	4	
P8	B8	B8	B8	-	1d	1d	a	a	a	a	a	2	
P9	B9	B9	B9	-	2b	2b	d	d	d	d	AUTO	15	
P10	B10	B10	B10	-	2g	2g	p	p	p	p	(REC)	13	
P11	B11	B11	B11	-	2e	2e	e	e	e	e	e	11	
P12	B12	B12	B12	-	/	[coll top]	g	g	g	g	g	9	
P13	B13	B13	B13	-	1b	1b	f	f	f	f	f	7	
P14	B14	B14	B14	-	1g	1g	k	k	k	k	((∞))	5	
P15	B15	B15	B15	BBE	-	1e	1e	h	h	h	h	<<	3
P16	B16	B16	-	-	-	[coll bottom]	Op	-	[coll top]	-	REC	1	
P17	-	-	-	-	AM	KHz	-	-	-	-	[A]	-	
P18	-	-	-	-	PM	MHz	-	-	-	-	[B]	-	
P19	-	-	-	-	-	5	-	-	-	-	-	-	
P20	S1	S1	S1	Z	-	-	-	-	-	-	-	-	
P21	S2	S2	S2	-	-	-	-	-	-	-	-	-	
P22	-	-	T-BASS	-	-	-	-	-	-	-	-	S3	

## ADJUSTMENT - 1 (CX - L9)

### (DECK SECTION)

#### K DECK C. B



#### 1. Tape speed Adjustment

- Settings : • Test tape : TTA-100 (TTA-111S)  
• Test point : SP OUT  
• Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 for  $3000 \pm 5\text{Hz}$ .

#### 2. Head Azimuth Adjustment

- Settings : • Test tape : TTA-310 (TTA-317E, SCC-1429)  
• Test point : SP OUT  
• Adjustment location :

Head azimuth  
adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

Next, perform on each FWD PLAY mode and REV PLAY mode.

#### 3. PB Frequency Response Check

- Settings : • Test tape : TTA-310 (TTA-317E, SCC-1429)  
• Test point : SP OUT

Method : Play back the 63Hz, 315Hz and 10kHz signals of the test tape and check the output of the 63Hz, 10kHz signal are

$-13 \sim -5\text{dB}$  (63Hz),  $-7 \sim +2\text{dB}$  (10kHz) with respect to that of the 315Hz signal.

#### 4. REC/PB frequency Response Check

- Settings : • Test tape : TTA-601 (TTA-119K)  
• Test point : SP OUT

(BBE, GEQ, T-BASS OFF)

- Method : 1) Apply a signal lowered from 775mV (0dB) to  $-20\text{dB}$  by attenuator to AUX terminal.

2) Record and play back the 100Hz, 1kHz and 10kHz of the test tape.

3) Check the play back levels are  $-11 \sim -2\text{dB}$  (100Hz),  $-10 \sim +3\text{dB}$  (10kHz) with respect to that of the 1kHz signal.

## PRACTICAL SERVICE FIGURE (CX - L9)

### < TAPE RECORDER SECTION >

Distortion : Less than 2.0% (PB, AC)  
Less than 3.0% (REC/PB, AC)

More than 40dB (PB, AC)  
More than 38dB (REC/PB, AC)

Noise : Less than 100mV (PB, AC, MAX)  
Less than 130mV (REC/PB, AC, MAX)

Erasing ratio : More than 60dB  
Tape speed : 3000Hz  $\pm 45\text{Hz}$

Wow & flutter : Less than 0.35% (JIS, RMS)  
Take up torque : 30~55g-cm (FWD/REVERSE)

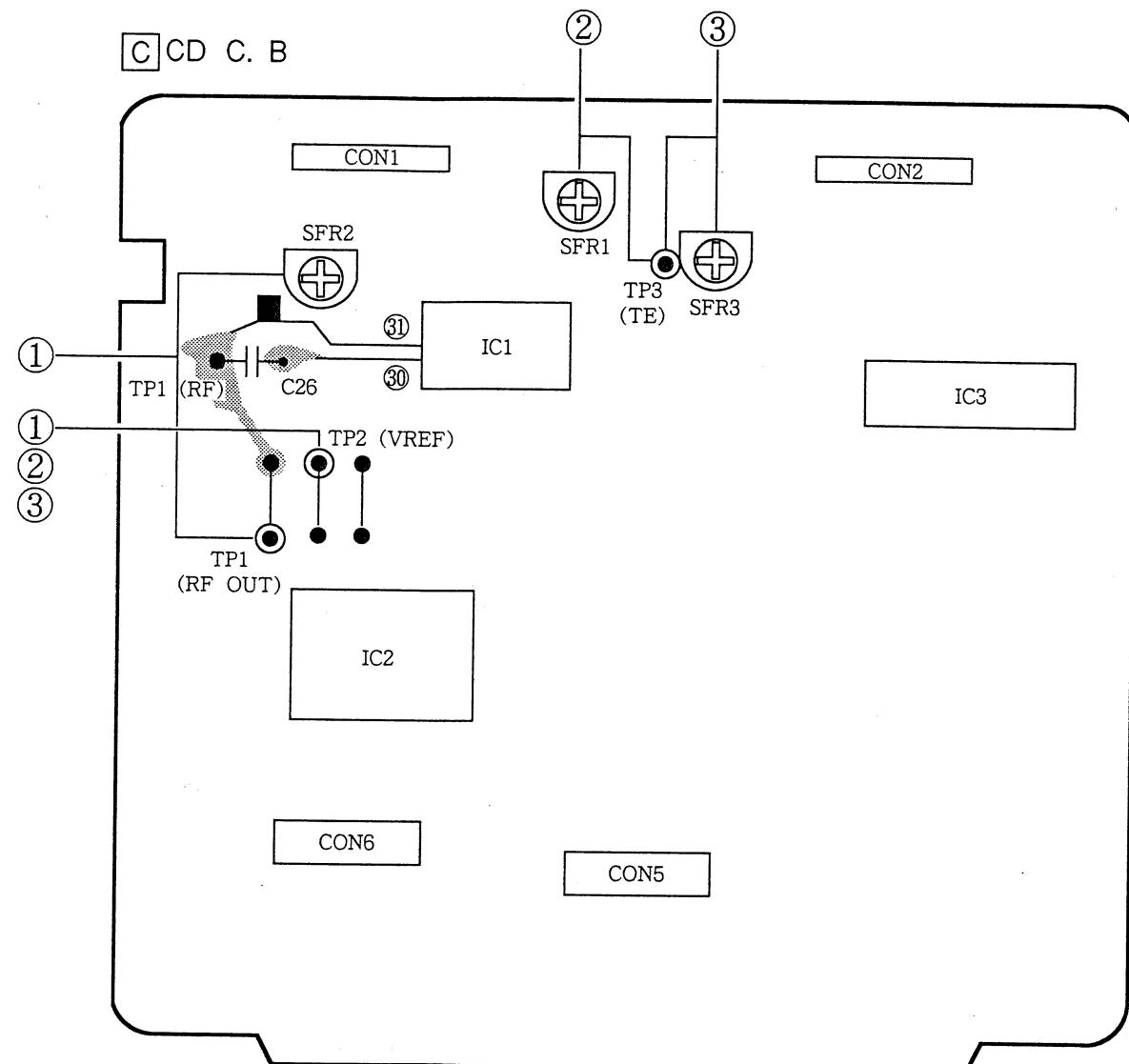
FF torque : 75~180g-cm  
REW torque : 75~180g-cm

Back tension : 2~7g-cm  
Test tape : TTA-601 (TTA-119K)  
TTA-610 (TTA-119H)

TTA-310 (TTA-317E, SCC-1429)

## ADJUSTMENT - 2 (CX - L9)

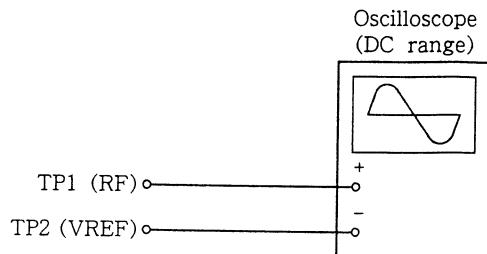
### (CD SECTION)



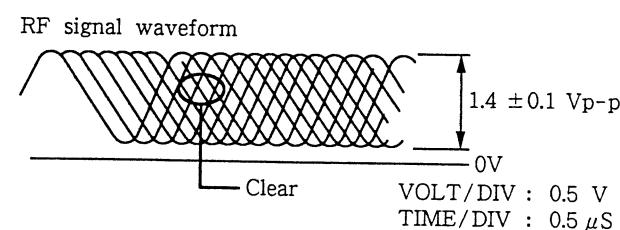
Note : • Connect a probe (10:1) of the oscilloscope or the frequency counter to a test point.

#### ① Focus Bias Adjustment

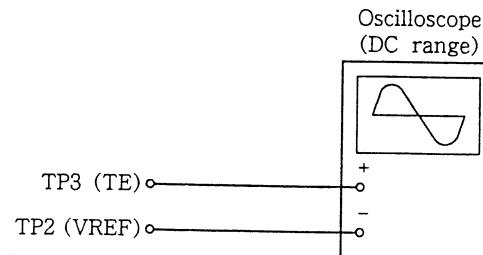
Make the focus bias adjustment when replacing and repairing the optical block.



1. Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
2. Turn on the power switch.
3. Insert the test disc TCD-782 (YEDS-18) and play back the second composition.
4. Adjust SFR2 so that the level of RF wave to be maximum and clear.

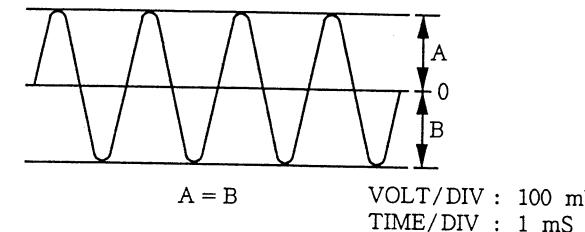


#### ② RADIAL Balance Adjustment



1. Connect an oscilloscope to the test points TP3 (TE) and TP2 (VREF).
2. Turn on the power switch.

3. Insert the test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
4. Connect the intermediate point of SFR3 to TP2 (VREF).
5. Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
6. Remove the connected wire.



#### ③ RADIAL Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocated, the adjustment is performed so that both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

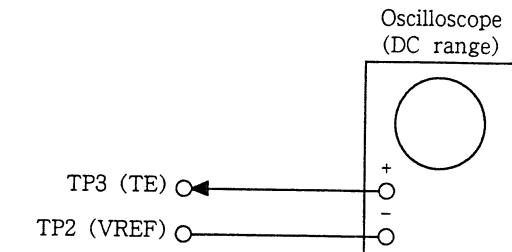
When the gain adjustment is not satisfied, the symptoms below appear.

#### - Simple adjustment -

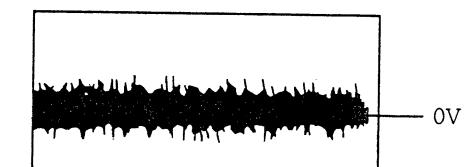
Note : Since the adjustment cannot be performed exactly, remember the positions of the controls before the adjustment and compare the adjusted position and the original position.

If the difference is a little, return the control to the original position.

#### Procedure :



1. Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
3. Connect an oscilloscope to TP3 (TE) of the main board.
4. Adjust SFR3 so that the waveform appears as shown in the figure below.(tracking gain adjustment)

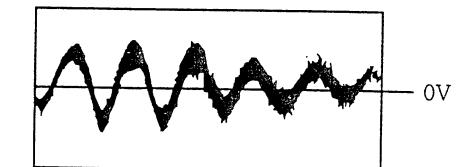


VOLT/DIV : 50 mV  
TIME/DIV : 1 mS

#### ● Incorrect example

##### Low tracking gain

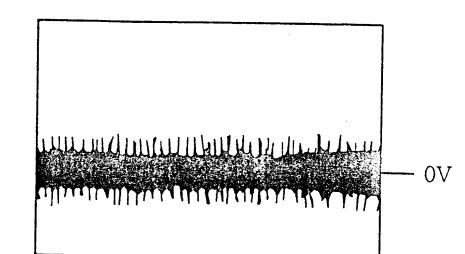
(The fundamental wave appears as compared with the waveform adjusted.)



VOLT/DIV : 50 mV  
TIME/DIV : 1 mS

##### High tracking gain

(The frequency of the fundamental wave is higher than that in low gain.)

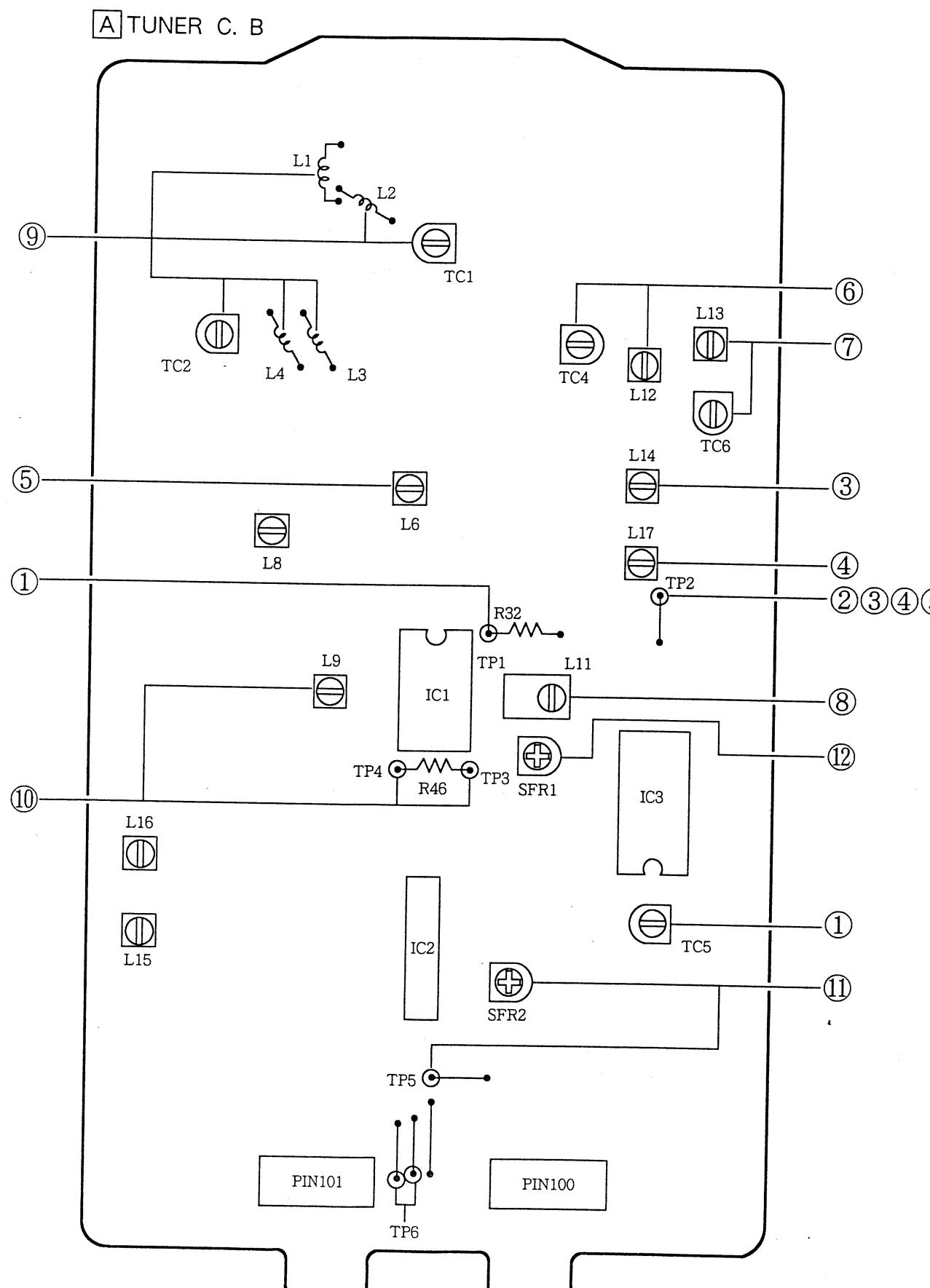


VOLT/DIV : 50 mV  
TIME/DIV : 1 mS

The following is simple adjustment method.

ADJUSTMENT – 3 (CX – L9)

(TUNER SECTION) < EE, K, HR, Z, E MODELS >



1. CLOCK Adjustment

Settings : • Test point : TP1

• Adjustment location : TC5

• Set the function to MW mode.

Method : Set to MW as Table-1 frequencies and adjust TC5 so that the test point becomes as Table-1 shown CLOCK frequencies.

Table-1

	MW frequency	CLOCK frequency
EE, K, HR, Z, E	1602kHz	2052.00 ± 0.01kHz

2. AM VT Check (HR only)

Settings : • Test point : TP2

• Set the function to MW mode.

Method : Set to MW as Table-2 frequencies and check VT voltage at the test point are within as Table-2 shown.

Table-2

	MW frequency	Voltage
HR	531kHz	1.2 ± 0.1V

3. MW VT Adjustment (EE, K, Z, E only)

Settings : • Test point : TP2

• Adjustment location : L14

• Set the function to MW mode.

Method : Set to MW 531kHz and adjust L14 so that the test point becomes  $1.0 \pm 0.1V$ .

4. LW VT Adjustment (EE, K, Z only)

Settings : • Test point : TP2

• Adjustment location : L17

• Set the function to LW mode.

Method : Set to LW 153kHz and adjust L17 so that the test point becomes  $2.0 \pm 0.1V$ .

5. FM VT Adjustment

Settings : • Test point : TP2

• Adjustment location : L6

• Set the function to FM mode.

Method : Set to FM 87.5MHz and adjust L6 so that the test point becomes  $3.2 \pm 0.05V$ .

6. MW Tracking Adjustment (E, K, Z, EE only)  
TC4 ..... 603kHz  
L12 ..... 1404kHz

7. LW Tracking Adjustment (E, K, Z, EE only)  
TC6 ..... 153kHz  
L13 ..... 288kHz

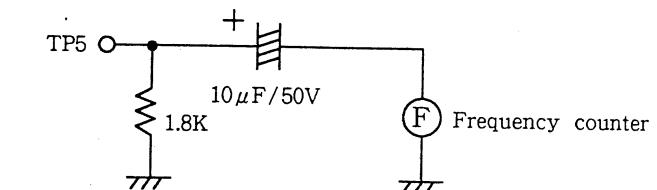
8. AM (MW) IF Adjustment  
L11 ..... 450kHz

9. FM Tracking Adjustment  
L1~4 ..... 87.5MHz  
TC1, 2 ..... 108.0MHz

10. DC Balance Adjustment  
Settings : • Test point : TP3, 4  
• SSG 98.0MHz, 54dB  
• Adjustment location : L9  
Method : Set to FM 98.0MHz and adjust L9 so that between TP3 and TP4 output becomes  $0 \pm 0.02V$ .

11. MPX VCO Adjustment  
Settings : • Test point : TP5  
• SSG 98.0MHz, 54dB (modulation OFF)  
• Adjustment location : SFR2

Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust SFR2 so that the frequency at the test point becomes  $38 \pm 0.05kHz$



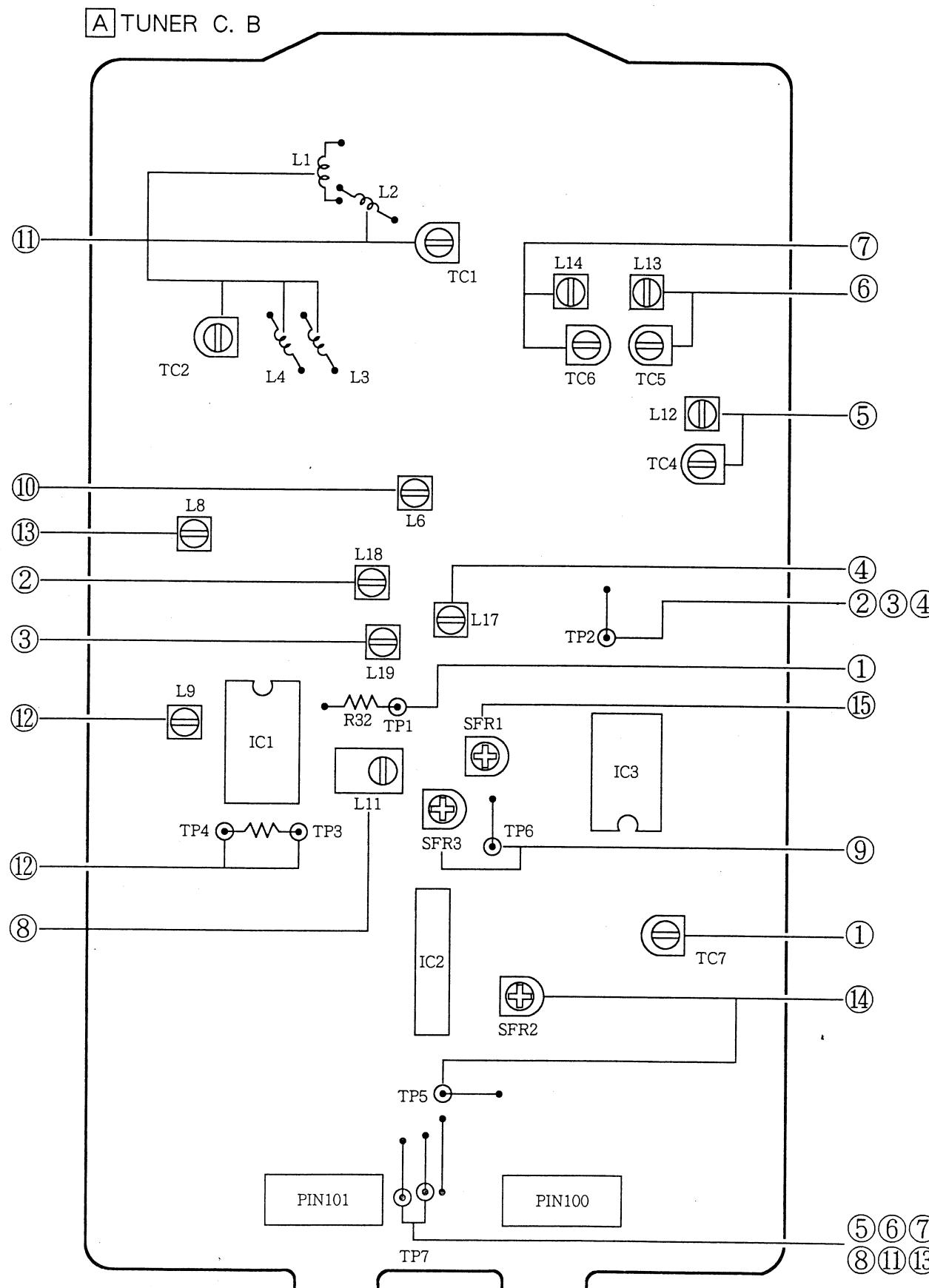
12. Light on tuning LED Adjustment

Settings : • Adjustment location : SFR1  
• SSG 98.0MHz, 30dB

Method : Set to FM 98.0MHz and adjust SFR1 so that TUNER LED lights. After that LED goes out by 3dB down.

ADJUSTMENT – 4 (CX – L9)

(TUNER SECTION) < HM MODEL >



NOTICE : Before start adjustment, change AM step to 10kHz by pressing POWER key during **◀▶** key pressing.

1. Clock Frequency Adjustment  
Settings : • Test point : TP1  
• Adjustment location : TC7  
Method : Set to MW 1710kHz and adjust TC7 so that the test point becomes  $2160\text{kHz} \pm 0.01\text{kHz}$ .
2. SW2 VT Adjustment  
Settings : • Test point : TP2 (VT)  
• Adjustment location : L18  
Method : Set to SW2 21.85MHz adjust L18 so that the test point becomes  $7.5\text{V} \pm 0.05\text{V}$ .
3. SW1 VT Adjustment  
Settings : • Test point : TP2 (VT)  
• Adjustment location : L19  
Method : Set to SW1 7.3MHz adjust L19 so that the test point becomes  $8.0\text{V} \pm 0.05\text{V}$ .
4. MW VT Adjustment  
Settings : • Test point : TP2 (VT)  
• Adjustment location : L17  
Method : Set to MW 1710kHz adjust L17 so that the test point becomes  $9.0\text{V} \pm 0.05\text{V}$ .
5. MW Tracking Adjustment  
Settings : • Test point : TP7  
• Adjustment location : L12 ..... 600kHz  
TC4 ..... 1400kHz  
Method : Set up TC4 to center before adjustment. The level at 600kHz is adjusted to MAX by L12. Then the level at 1400kHz is done by TC4.
6. SW2 Tracking Adjustment  
Settings : • Test point : TP7  
• Adjustment location : L13 ..... 9.5MHz  
TC5 ..... 21.85MHz  
Method : Set up TC5 to center before adjustment. The level at 9.5MHz is adjusted to MAX by L13. Then the level at 21.85MHz is done by TC5.
7. SW1 Tracking Adjustment  
Settings : • Test point : TP7  
• Adjustment location : L14 ..... 3.2MHz  
TC6 ..... 7.3MHz  
Method : Set up TC6 to center before adjustment. The level at 3.2MHz is adjusted to MAX by L14. Then the level at 7.3MHz is done by TC6.
8. MW IF Adjustment  
Settings : • Test point : TP7  
L11 ..... 450kHz
9. SW2 AGC voltage Adjustment  
Settings : • Test point : TP6 (AGC)  
• Adjustment location : SFR3  
• Input signal : 21.85MHz 60dB (EMF  $\mu$ )  
Method : Set to SW2 21.85MHz adjust SFR3 so that the test point becomes  $2.5\text{V} \pm 0.1\text{V}$ .

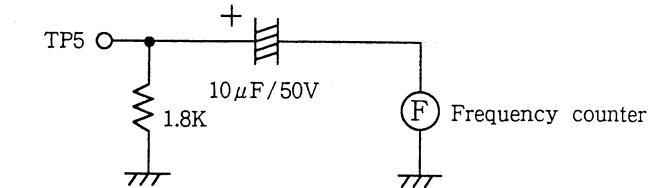
10. FM VT Adjustment  
Settings : • Test point : TP2 (VT)  
• Adjustment location : L6  
Method : Set to FM 87.5MHz adjust L6 so that the test point becomes  $3.0\text{V} \pm 0.05\text{V}$ .

11. FM Tracking Adjustment  
Settings : • Test point : TP7  
L1~L4 ..... 87.5MHz  
TC1, TC2 ..... 108MHz

12. DC Balance Adjustment  
Settings : • Test point : TP3, 4  
• SSG 98.0MHz, 54dB  
• Adjustment location : L9  
Method : Set to FM 98.0MHz and adjust L9 so that between TP3 and TP4 output becomes  $0 \pm 0.02\text{V}$ .

13. FM IF Adjustment  
Settings : • Test point : TP7  
• SSG 98.0MHz, 54dB (1kHz MOD)  
• Adjustment location : L8  
Method : Set to FM 98.0MHz and adjust L8 so that the distortion at TP7 becomes less than 0.8%.

14. MPX VCO Adjustment  
Settings : • Test point : TP5  
• SSG 98.0MHz, 54dB (modulation OFF)  
• Adjustment location : SFR2  
Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust SFR2 so that the frequency at the test point becomes  $38 \pm 0.05\text{kHz}$



15. Light on tuning LED Adjustment  
Settings : • Adjustment location : SFR1  
• SSG 98.0MHz, 30dB  
Method : Set to FM 98.0MHz and adjust SFR1 so that TUNER LED lights. After that LED goes out by 3dB down.

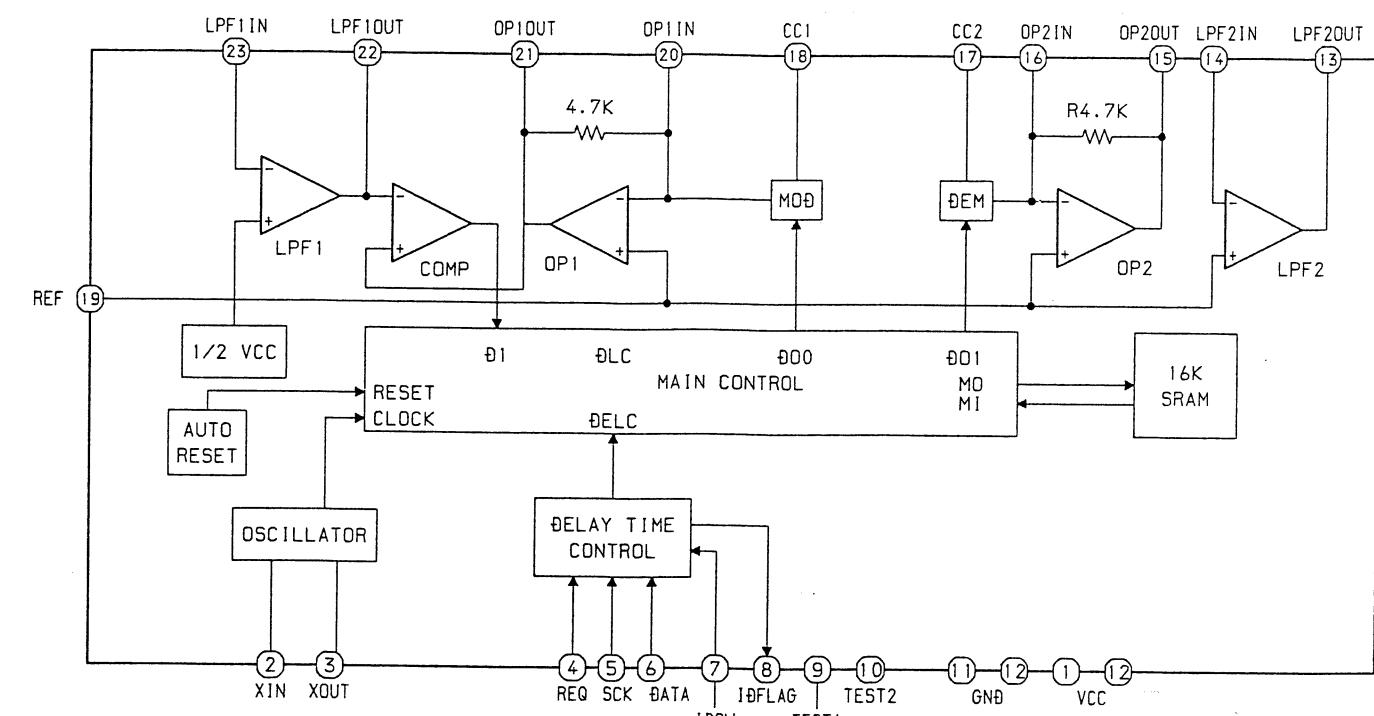
## PRACTICAL SERVICE FIGURE (CX - L9)

< FM SECTION >	
IHF Sensitivity :	11dB ± 5dB (at 87.5, 98.0, 108.0MHz)
(THD 3%)	
S/N ratio :	More than 60dB (at 98MHz)
Distortion :	Less than 1.0%
(Input 54dB)	
Intermediate frequency :	10.7MHz
Auto stop level :	30dB ± 5dB (at 98MHz)
Stereo separation :	20dB ± 14dB (at 1kHz)
< MW SECTION >	
Sensitivity :	56dB ± 6dB (at 603kHz)
(S/N 20dB)	
S/N ratio :	53dB ± 6dB (at 999, 1404kHz)
More than 30dB	
[at 999kHz]	
Intermediate frequency :	450kHz
Auto stop level :	50dB ± 10dB (at 999kHz)

< LW SECTION > (E, K, Z, EE ONLY)	
Sensitivity	66dB ± 5dB (at 153kHz)
(S/N 20dB)	
63dB ± 5dB (at 198kHz)	
62dB ± 5dB (at 288kHz)	
S/N ratio :	More than 32dB (at 198kHz)
< SW1 SECTION > (HM ONLY)	
Sensitivity :	32dB ± 6dB (at 3.2MHz)
(S/N 20dB)	
29dB ± 6dB (at 5.0MHz)	
27dB ± 6dB (at 7.3MHz)	
S/N ratio :	More than 35dB (at 5.0MHz)
< SW2 SECTION > (HM ONLY)	
Sensitivity :	42dB ± 6dB (at 9.5MHz)
(S/N 20dB)	
35dB ± 6dB (at 15MHz)	
27dB ± 6dB (at 21.85MHz)	
S/N ratio :	More than 35dB (at 15.0MHz)

## IC BLOCK DIAGRAM (CX - L9)

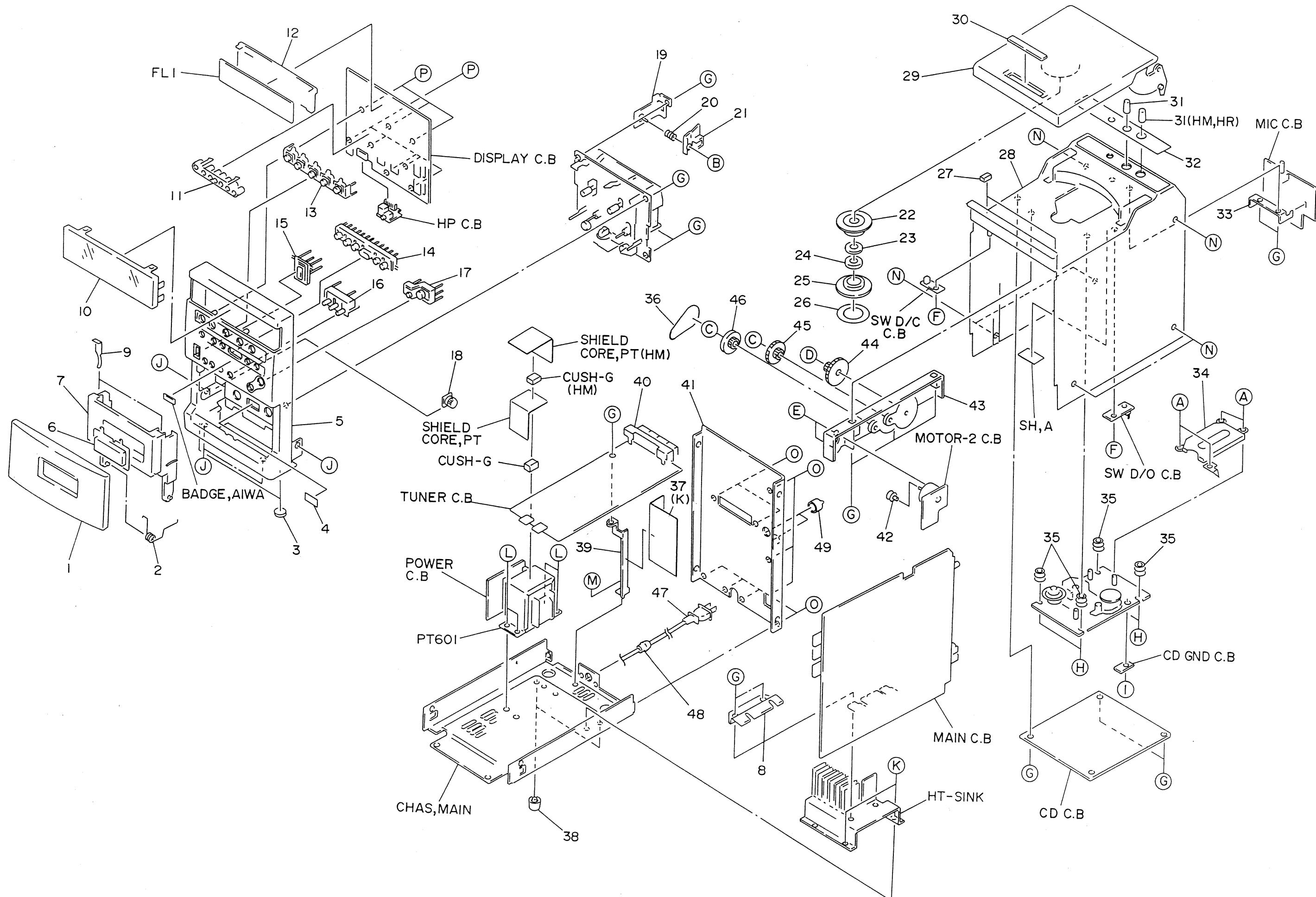
IC,M65830Afp



See the LCX - 7 for the IC BLOCK DIAGRAM and IC DESCRIPTION below.

LCX - 7	LCX - 9
UPD78043GF	UPD78043GF - 049
CXA1782AQ	CXA1782AQ
CXD2517Q	CXD2517Q
BU4094BF	BU4094BF
LC7218	LC7218
BA3830F	BA3830F
TDA1311A	TDA1311A
BU4051BF	BU4051BF
TA7291S	TA7291S
TC9212F	TC9212F
BU4052BF	BU4052BF

MECHANICAL EXPLODED VIEW 1/1 (CX - L9)

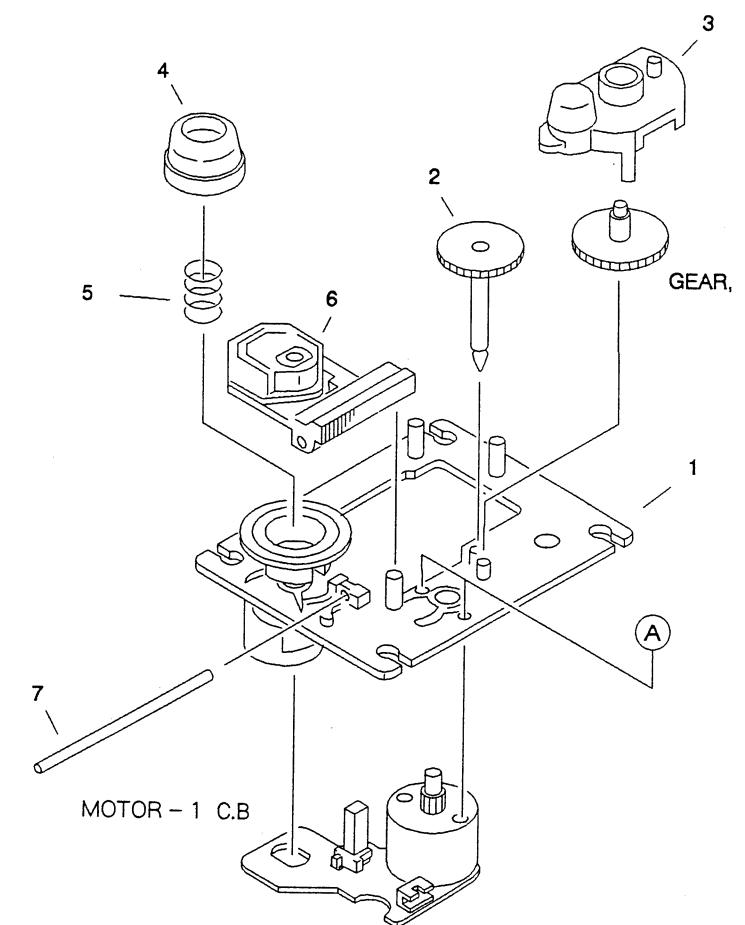


## MECHANICAL PARTS LIST 1/1 (CX - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	83-CT2-051-110		LID, CASS/GY	40	81-653-648-010		ANT TERM EARTH PAL<K, EE, Z, E>
2	83-CT3-201-010		SPR-T, CASS F7	40	81-653-638-110		ANT TERMINAL EARTH<HM, HR>
3	83-CT2-214-010		CUSH, FOOT	41	83-CT0-011-010		PANEL, REAR E<E>
4	81-532-080-010		LBL, CASS-COMPT	41	83-CT0-007-010		PANEL, REAR EE<EE>
5	83-CT0-002-010		CAB, FR/GY	41	83-CT0-009-010		PANEL, REAR HM<HM>
6	83-CT2-004-010		WINDOW, CASS	41	83-CT0-010-010		PANEL, REAR HR<HR>
7	83-CT2-002-210		BOX, CASS	41	83-CT0-005-010		PANEL, REAR K<K>
8	83-CT2-646-010		HLDR, TA8220	41	83-CT0-006-010		PANEL, REAR Z<Z>
9	81-CD2-230-010		SPR-P, CASS	42	83-CT2-208-010		PULLY, MOTOR
10	83-CT2-008-010		WINDOW, DISP	43	83-CT2-205-210		HLDR, GEAR
11	83-CT2-204-010		GUIDE, CONT-LED	44	83-CT2-206-010		GEAR, A
12	83-CT2-202-010		HLDR, DISP	45	83-CT2-207-010		GEAR, B
13	83-CT2-015-110		BTN, FUNC ASSY	46	83-CT2-209-010		PULLY, CD
14	83-CT2-010-110		BTN, CONT	47	87-050-032-010		AC CORD ASSY K 3P S<K>
15	83-CT2-011-010		BTN, POWER	47	87-050-034-010		AC CORD ASSY, E<EXCEPT K>
16	83-CT2-013-010		BTN, T-BASS	48	87-085-185-010		BUSHING, AC CORD E
17	83-CT2-012-010		BTN, VOL	49	84-508-650-010		RCA CAP
18	87-063-165-010		OIL-DMPR 150	A	87-651-034-410		VT1+2-5
19	83-CT2-211-010		HLDR ASSY, LOCK	B	87-081-808-010		PW, 1.7-3.5-0.25
20	80-MV3-218-010		SPR-C, LOCK(SIN)	C	87-663-096-410		VFT1+3-10 BLK
21	80-CD3-233-010		PLATE, LOCK	D	87-663-036-410		VFT1+2-8 BLK
22	81-CD2-225-010		CHUCK, CD A	E	87-573-073-410		VIT1+2, 6-6 BLK
23	81-590-224-010		PLATE MAGNET	F	87-651-074-410		VT1+2, 6-8
24	87-036-216-010		MAGNET	G	87-067-703-010		BVT2+3-10 (W/O SLOT)
25	80-CD3-205-010		CHUCK, CD B	H	81-CD5-204-010		SCREW, CD
26	81-CD2-237-010		CUSH, CHUCK L 0.7	I	87-067-520-010		VFTT1+2-6
27	83-CT2-219-010		CUSH, BOX-CD	J	87-593-094-410		QIT1+3-6 BLK
28	83-CT2-052-110		CHAS, CD/GY	K	87-067-584-010		BVT2+3-6
29	83-CT2-053-110		BOX, CD/GY	L	87-067-585-010		BVTT1+4-6
30	83-CT2-007-010		WINDOW, CD	M	87-571-092-410		VIT1+3-4 GLD
31	83-CT2-019-010		KNOB, MIC A	N	87-593-095-410		QIT +3-8 BLK
32	83-CT2-055-010		PLATE, MIC(2)/GY<K, EE, Z, E>	O	87-067-761-010		BVT2+3-10 BLK
32	83-CT2-054-010		PLATE, MIC/GY<HM, HR>	P	87-651-096-410		VT1+3-10
33	83-CT2-216-010		HLDR, MIC				
34	81-CD2-028-110		PANEL, CD				
35	80-CD3-214-010		CUSH CD A				
36	83-CT2-210-010		BELT				
37	83-CT2-229-010		COVER, AC<K>				
38	87-085-236-010		FOOT, SA2				
39	83-CT2-217-010		HLDR, TU				

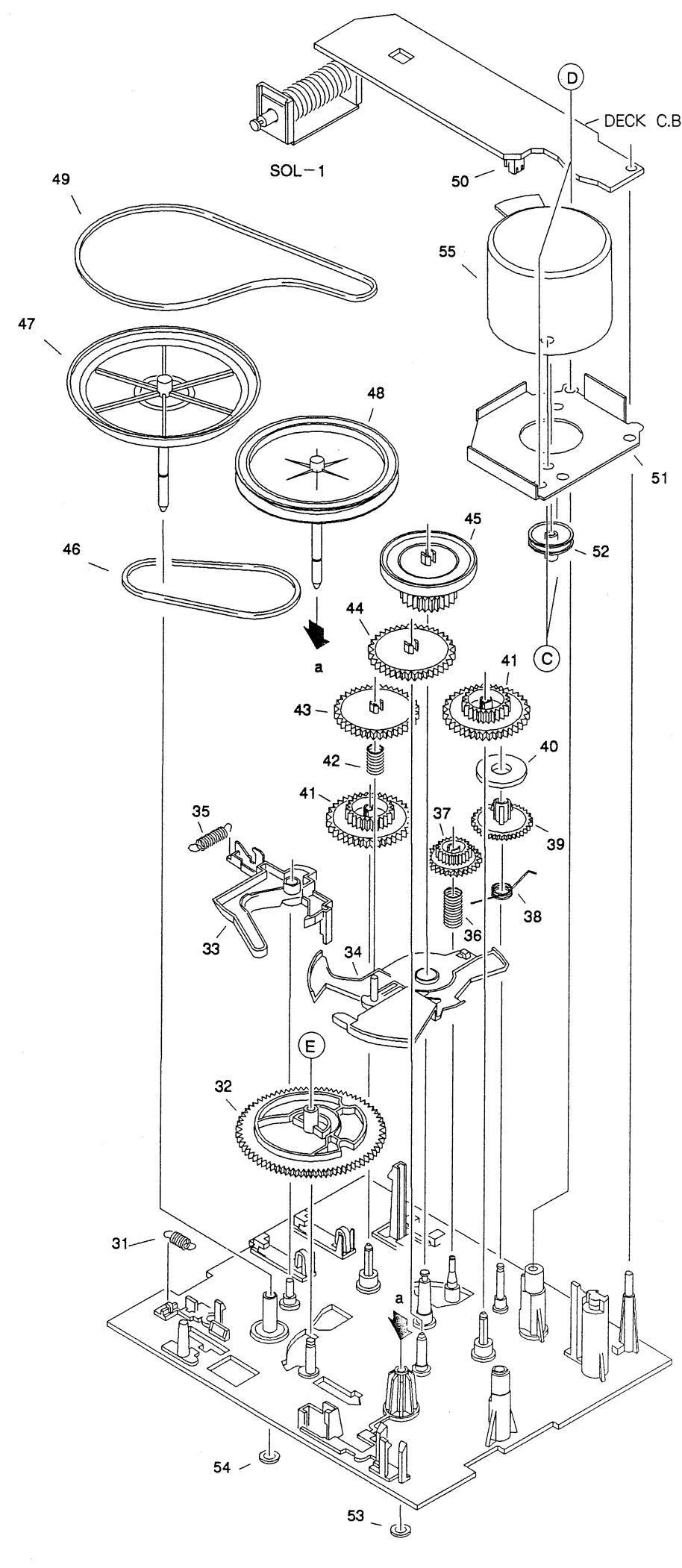
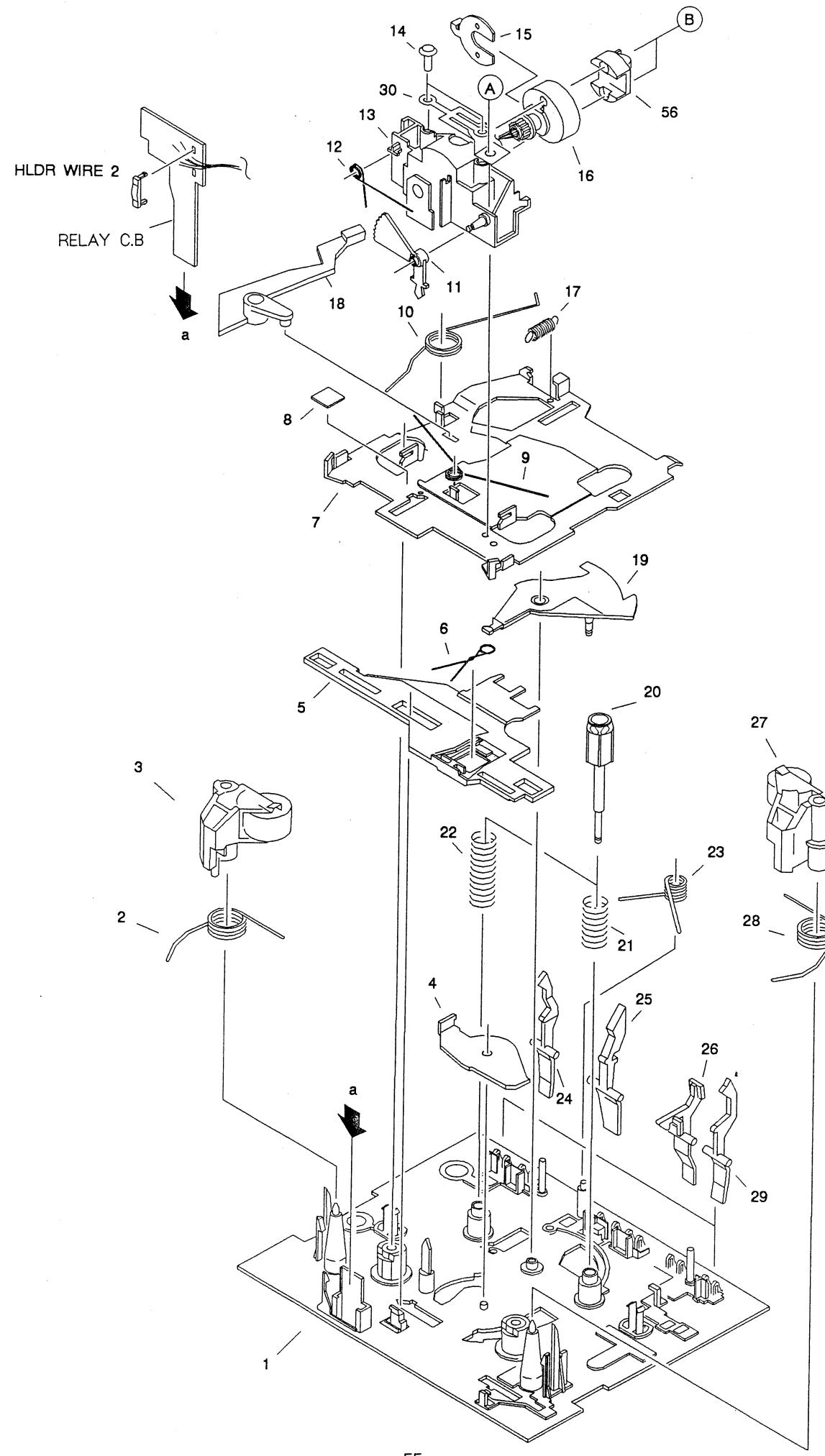
## CD MECHANISM EXPLODED VIEW 1/1 (CX - L9)



## CD MECHANISM PARTS LIST 1/1 (CX - L9)

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	9X-262-513-310		T. T CHASS ASSY W/MOTOR	6	98-848-137-210		OPTICAL PICK UP KSS-210B
2	92-625-188-020		GEAR(A)	7	94-917-565-010		SHAFT SLED
3	92-625-544-010		COVER	A	87-261-032-210		V+2-3
4	92-625-187-010		RING CENTER				
5	92-625-191-010		SPRING COMPRESSION				

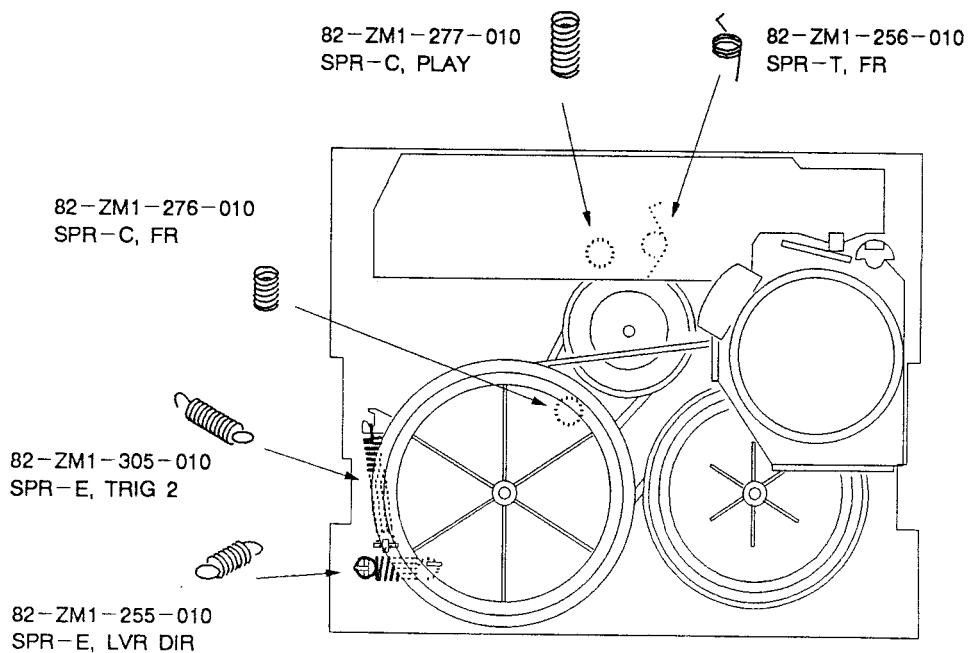
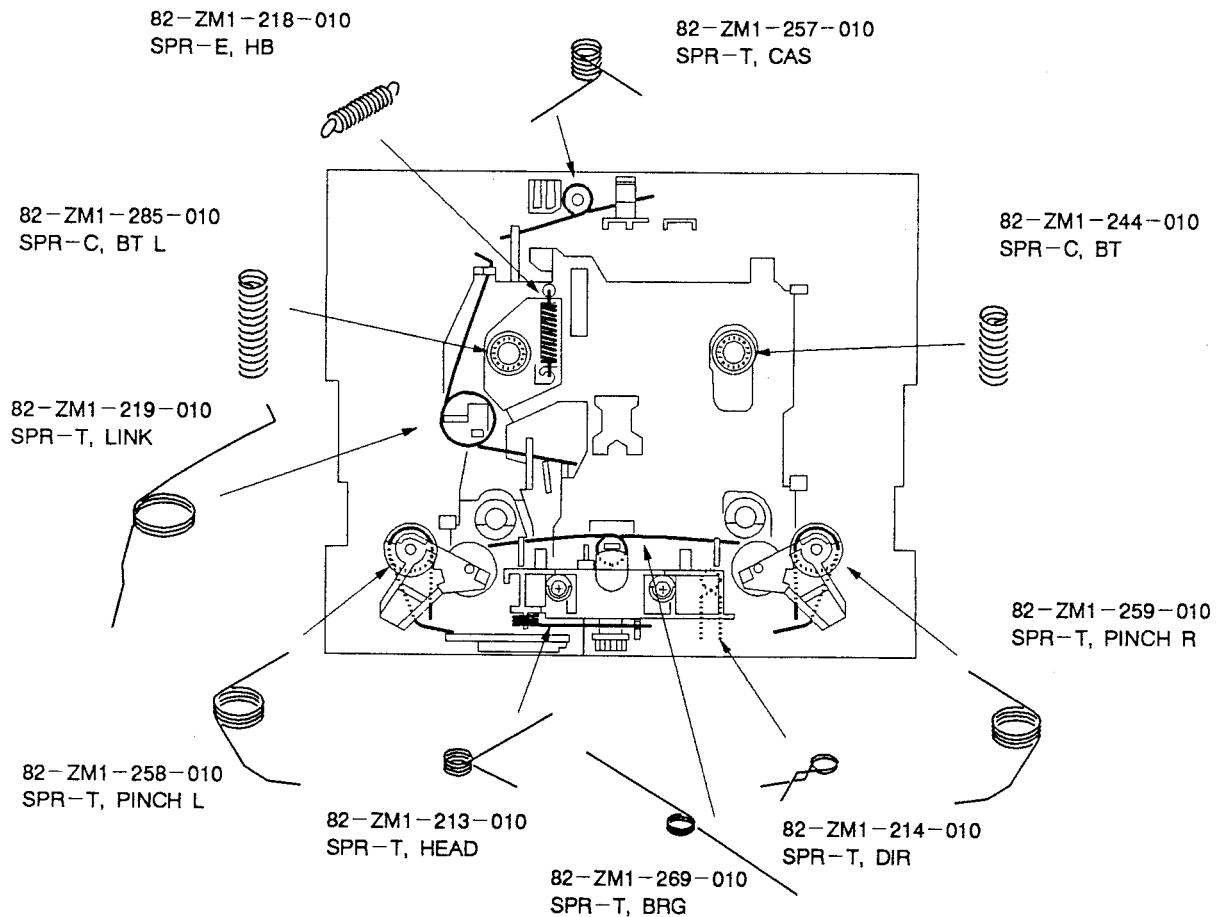
TAPE MECHANISM EXPLODED VIEW 1/1 (CX - L9)



TAPE MECHANISM PARTS LIST 1/1 (CX - L9)

REF. NO.	PART NO.	カソリ NO.	DESCRIPTION	REF. NO.	PART NO.	カソリ NO.	DESCRIPTION
1	82-ZM1-299-010		CHAS ASSY, R	36	82-ZM1-277-010		SPR-C, PLAY
2	82-ZM1-258-010		SPR-T, PINCH L	37	82-ZM1-223-010		GEAR, PLAY
3	82-ZM1-248-110		LVR ASSY, PINCH L	38	82-ZM1-256-110		SPR-T, FR
4	82-ZM1-295-210		PLATE ASSY, LINK	39	82-ZM1-220-110		GEAR, IDLER
5	82-ZM1-266-010		LVR, DIR	40	80-ZM6-217-010		RING MAGNET 2
6	82-ZM1-214-010		SPR-T, DIR	41	82-ZM1-216-210		GEAR, REEL
7	82-ZM1-206-210		CHAS, HEAD	42	82-ZM1-276-010		SPR-C, FR
8	87-078-014-010		SH, 5-5-0. 05	43	82-ZM1-225-010		GEAR, FR
9	82-ZM1-269-010		SPR-T, BRG	44	82-ZM1-226-010		GEAR, REW
10	82-ZM1-219-010		SPR-T, LINK	45	82-ZM1-228-210		SLIP DISK ASSY
11	82-ZM1-210-010		GEAR, H T	46	82-ZM1-261-110		BELT, FR
12	82-ZM1-213-010		SPR-T, HEAD	47	82-ZM1-237-210		FLY-WHL ASSY, R
13	82-ZM1-207-010		GUIDE, TAPE	48	82-ZM1-234-110		FLY-WHL ASSY, L
14	82-ZM1-283-310		S-SCREW, AZIMUTH	49	82-ZM1-260-010		BELT, MAIN
15	82-ZM1-209-010		PLATE, HEAD	50	82-ZM1-245-210		HLDR, IC
16	82-ZM1-208-010		HLDR, HEAD	51	82-ZM1-246-010		HLDR, MOTOR
17	82-ZM1-218-010		SPR-E, HB	52	82-ZM1-247-010		PULLEY, MOTOR
18	82-ZM1-263-110		LVR, EJECT	53	82-ZM1-288-010		SH, 1. 63-3. 2-0. 5 SLT
19	82-ZM1-222-010		LVR, PLAY	54	80-ZM6-243-010		SH, 1. 75-3. 6-0. 5 SLT
20	82-ZM1-217-110		REEL TABLE	55	87-045-348-010		MOT, SHW 2L 70(M1)
21	82-ZM1-244-110		SPR-C, BT	56	87-046-399-010		HEAD, RPH YK56R-BS409 (RPH)
22	82-ZM1-285-110		SPR-C, BT L	A	87-585-036-410		UIT+2-8
23	82-ZM1-257-010		SPR-T, CAS	B	80-ZM6-207-010		V+1. 6-7
24	82-ZM1-241-110		LVR, MC	C	87-251-070-410		U+2. 6-3
25	82-ZM1-242-010		LVR, CAS	D	87-741-073-410		UT2+2. 6-6 GLD
26	82-ZM1-243-010		LVR, STOP	E	87-067-932-010		PW, 2. 15-6. 8-0. 5 SLT
27	82-ZM1-253-110		LVR ASSY, PINCH R				
28	82-ZM1-259-010		SPR-T, PINCH R				
29	82-ZM1-240-110		LVR, REC				
30	82-ZM1-298-010		SPR-P, EARTH				
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				
35	82-ZM1-305-010		SPR-E, TRIG 2				

## SPRING APPLICATION POSITION (CX - L9)

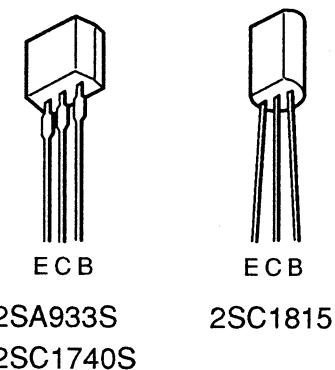


## ELECTRICAL MAIN PARTS LIST (TS - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION	REF. NO	PART NO.	カソリ NO.	DESCRIPTION
IC				FC2	83-SP2-624-010		F-CABLE, 5-2-39 (Z)
87-002-727-010	IC, NJM4558L			S1	87-036-243-010		SW, PUSH 2-2-2 SPPH23
83-SP2-611-010	IC, AN7164N			VR1	83-SP2-612-010		VR, 10KB SQ11
TRANSISTOR				TR C. B			
89-318-154-080	TR, 2SC1815Y			C56	87-033-213-080		CLAMP, FUSE SMK
87-026-462-080	TR, 2SC1740S(RS)			C57	87-018-205-080		CAP, TC-U 0.022-25 F(Z)
87-026-463-080	TR, 2SA933S(RS)			C58	87-018-205-080		CAP, TC-U 0.022-25 F(Z)
				C59	87-018-205-080		CAP, TC-U 0.022-25 F(Z)
DIODE				△ F1	87-035-402-010		FUSE 2A 250V UL D(HE)
87-020-465-080	DIODE, 1SS133			△ F1	87-035-365-010		FUSE, 2A 250V T E(EXCEPT HE)
87-020-405-080	ZENER, HZ12B2L			FC1	83-SP2-622-010		F-CABLE, 4-2
87-020-285-010	DIODE, DBA30C			△ J3	87-099-424-010		JACK, AC K(K)
				△ PT1	83-SP2-609-010		PT, E(EE, E, Z)
MAIN C. B				△ PT1	83-SP2-607-010		PT, H(HE, HR)
				△ PT1	83-SP2-610-010		PT, K(K)
C20	87-010-401-080		CAP, E 1-50 SME	SW C. B			
C21	87-010-393-080		CAP, E 100-35 SME	△ S2	87-036-211-010		SW, SL 2-2-3 DPDT R(HE, HR)
C23	87-010-263-080		CAP, E 100-10				
C24	87-018-127-080		CAP, TC-U 470P-50 B				
C26	87-010-384-080		CAP, E 100-25 SME				
C28	87-010-384-080		CAP, E 100-25 SME				
C29	87-010-582-010		CAP, E 4700-35				
C30	87-010-263-080		CAP, E 100-10				
C31	87-010-263-080		CAP, E 100-10				
C32	87-010-385-080		CAP, E 220-25				
C36	87-010-385-080		CAP, E 220-25				
C37	87-010-385-080		CAP, E 220-25				
C39	87-010-405-080		CAP, E 10-50 SME				
C40	87-018-205-080		CAP, TC-U 0.022-25 F				
C41	87-018-132-089		CAP, TC-U 2200P-16X(Z)				
C42	87-018-131-080		CAP, TC-U 1000P-50 B(Z)				
C44	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C62	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
L1	81-NWB-655-019		COIL, 10UH TR01DAL(Z)				
L2	81-NWB-655-019		COIL, 10UH TR01DAL(Z)				
L3	81-NWB-655-019		COIL, 10UH TR01DAL(Z)				
R32	87-025-469-080		RES, NF2, 2-1/4WJ				
R33	87-025-469-080		RES, NF2, 2-1/4WJ				
R34	87-022-050-080		RES, M/F 0.22-1W				
△ R58	87-029-090-090		FUSE, RES 22-1/4W FM				
R63	88-121-102-080		RES, 1K-1/8W J(Z)				
VOL C. B							
C1	87-010-401-080		CAP, E 1-50 SME				
C6	87-010-405-080		CAP, E 10-50 SME				
C7	87-010-384-080		CAP, E 100-25 SME				
C9	87-010-405-080		CAP, E 10-50 SME				
C10	87-010-405-080		CAP, E 10-50 SME				
C13	87-010-401-080		CAP, E 1-50 SME				
C16	87-010-405-080		CAP, E 10-50 SME				
C17	87-010-384-080		CAP, E 100-25 SME				
C33	87-010-405-080		CAP, E 10-50 SME				
C34	87-010-405-080		CAP, E 10-50 SME				
C35	87-010-382-080		CAP, E 22-25 SME				
C38	87-010-405-080		CAP, E 10-50 SME				
C48	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C49	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C50	87-018-131-080		CAP, TC-U 1000P-50 B(Z)				
C51	87-018-131-080		CAP, TC-U 1000P-50 B(Z)				
C52	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C53	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C54	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
C55	87-018-134-080		CAP, TC-U 0.01-16 Y(Z)				
D4	87-001-431-010		SLP155B-51				
FC2	83-SP2-623-010		F-CABLE, 5-2(EXCEPT Z)				

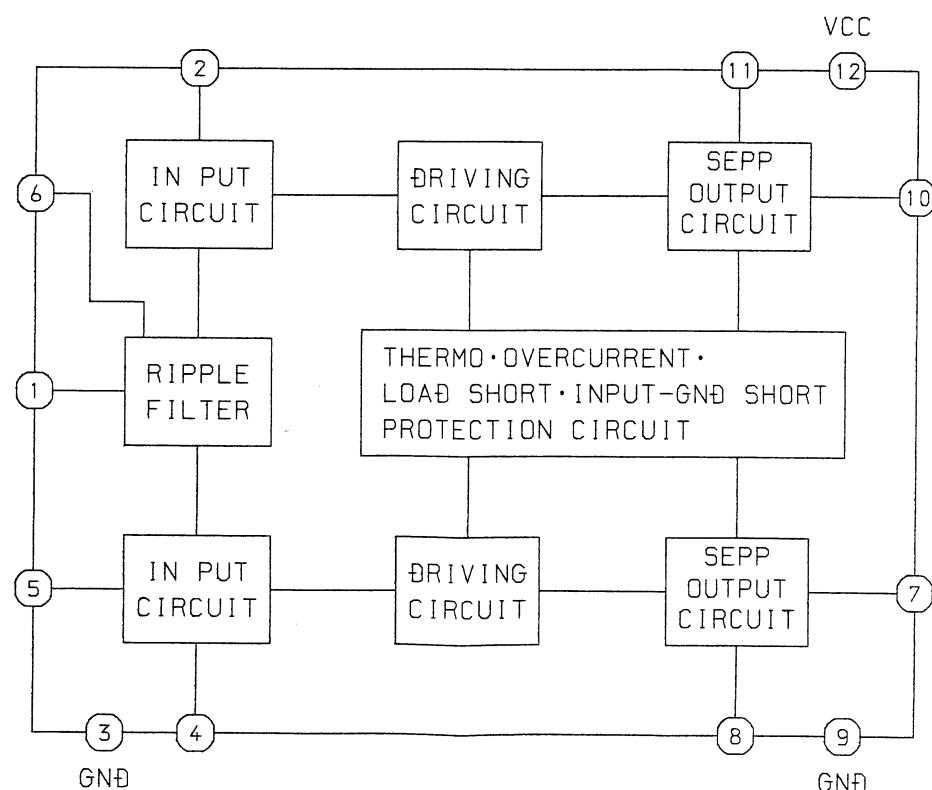
## TRANSISTOR ILLUSTRATION (TS - L9)

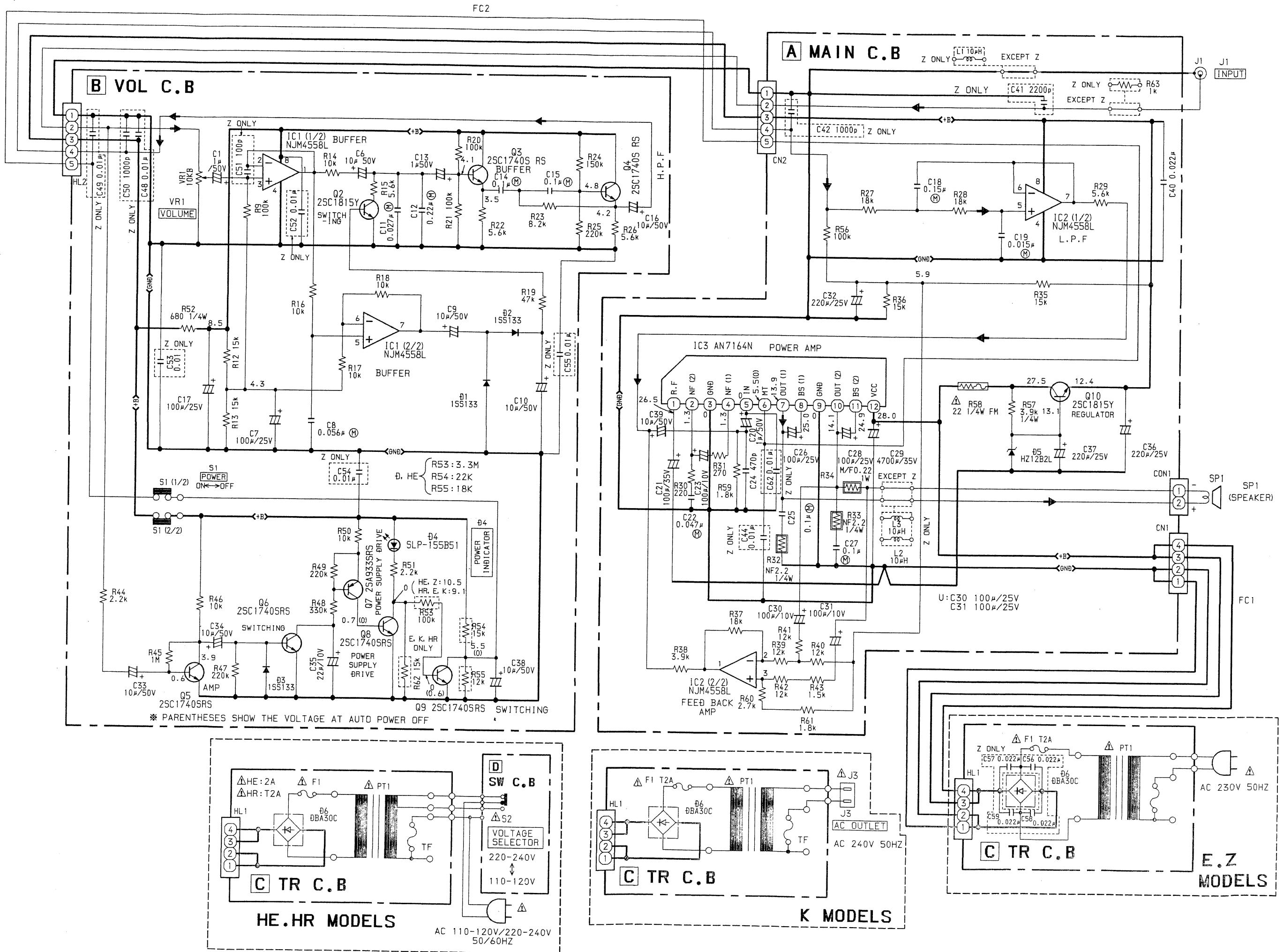


2SA933S  
2SC1815  
2SC1740S

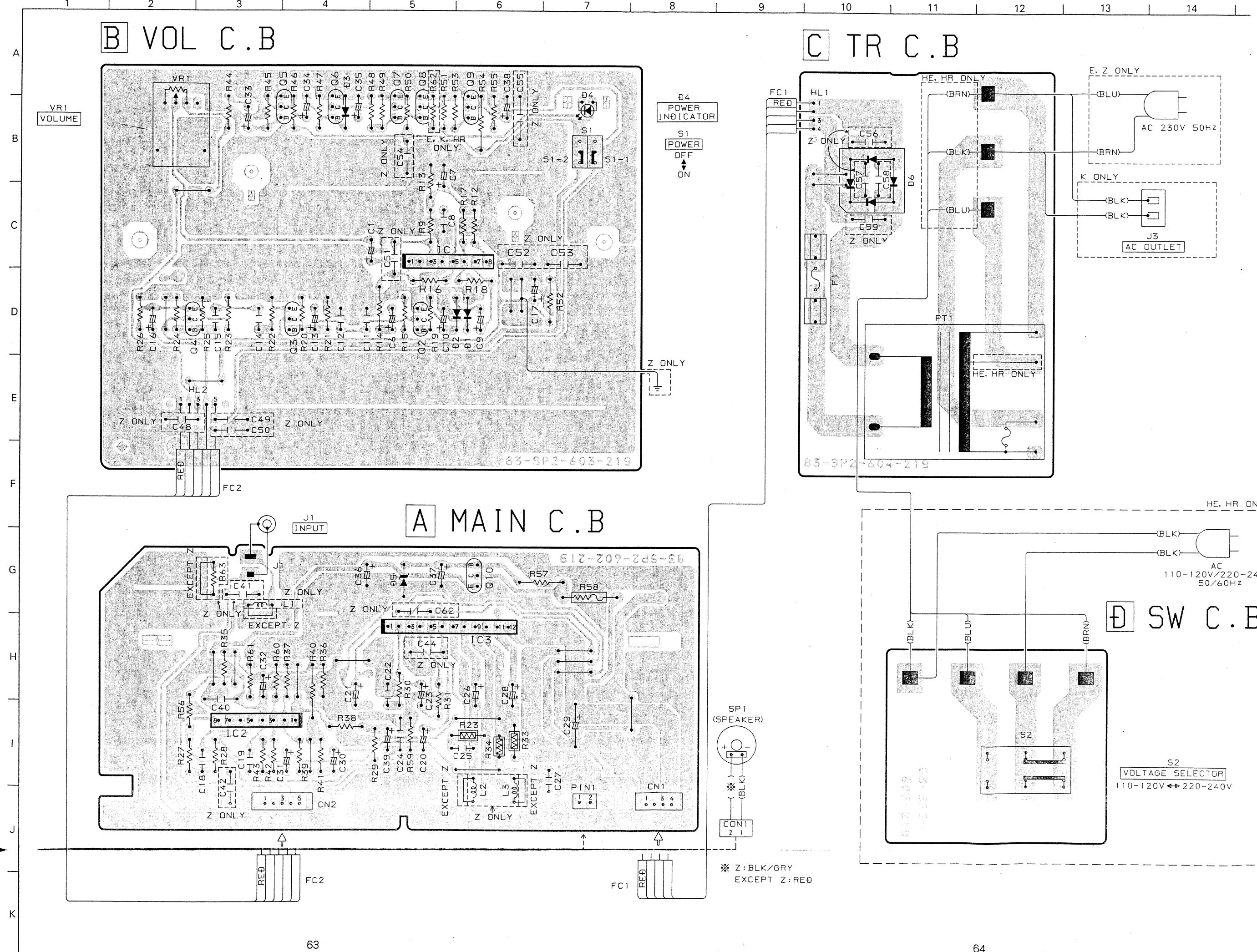
## IC BLOCK DIAGRAM (TS - L9)

IC,AN7164N

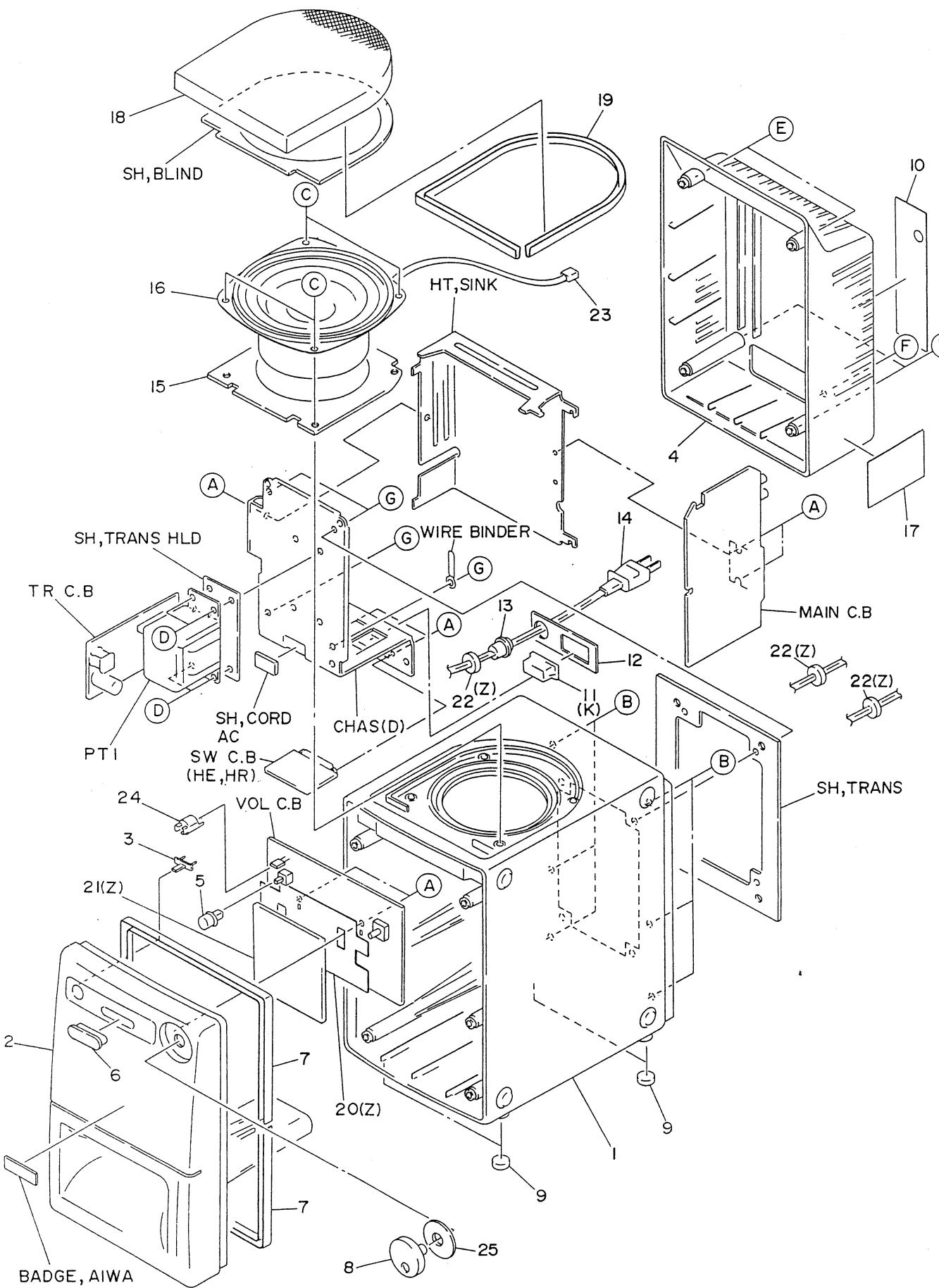




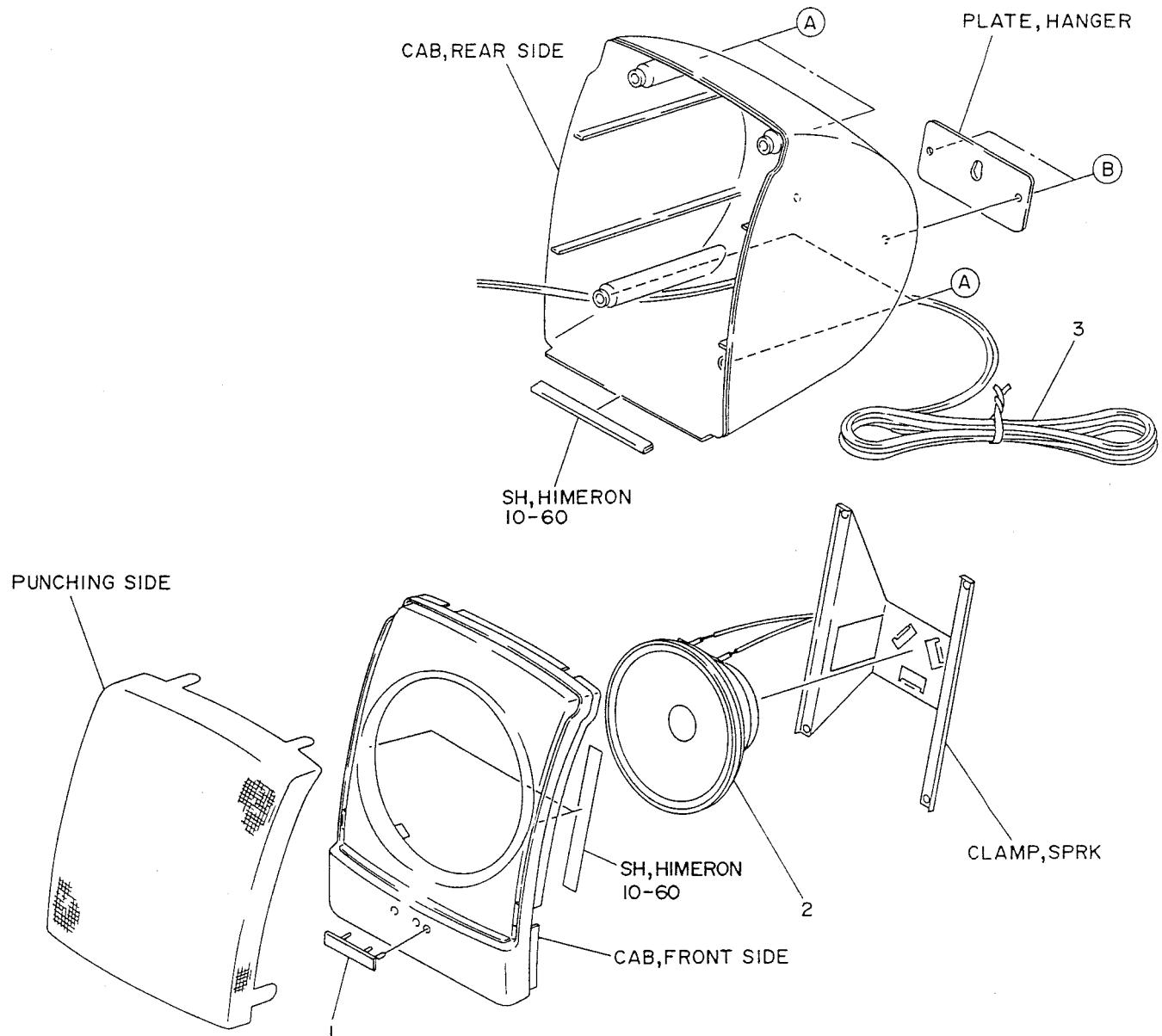
WIRING (TS - L9)



MECHANICAL EXPLODED VIEW 1/1 (TS - L9)



# MECHANICAL EXPLODED VIEW 1/1 (SX - L9)



# MECHANICAL PARTS LIST 1/1 (SX - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	83-CT2-030-019		BADGE, AIWA 25
2	83-SP2-619-019		SPKR F DIA 8
3	83-SP2-620-019		SPKR, CORD
A	87-067-822-019		BVT 2+3-20W/O SLOT
B	87-067-761-019		BVT2+3-10 BLK

## ■ ACCESSORIES/PACKAGE LIST (CX - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	83-CT0-903-010		IB, ESC (EXCEPT HM)
2	83-CT0-904-010		IB, GF1 (EE, Z, E)
3	83-CT0-905-010		IB, HM (HM)
4	87-006-226-010		AM LOOP ANT CON2 (EXCEPT Z, HR)
5	87-006-225-010		AM LOOP ANT NC2 (Z, HR)
6	87-043-095-010		ANTENNA WIRE (HM)
7	81-748-632-010		FEEDER ANT FMN (EXCEPT Z)
8	87-043-106-010		FM, WIRE ANT (Z) (Z)
9	87-042-062-010		PLUG, ADPTR S-16115 (HM, HR)
10	83-CL2-906-010		REMOCON, RC-L7 EX (K, EE, Z, E)
11	83-CL2-907-010		REMOCON, RC-L7 H (HM, HR)
12	83-CL2-918-019		SH, SURROUD-EX (S)

## ■ ACCESSORIES/PACKAGE LIST (TS - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	87-050-033-010		AC CORD SET ASSY, K3P (K)
2	87-042-062-010		PLUG, ADPTR S-16115 (HE)

## ■ ACCESSORIES/PACKAGE LIST (SX - L9)

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。  
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カソリ NO.	DESCRIPTION
1	83-SP2-621-019		CORD, CONNECTION 2M
2	82-SP1-045-019		STAND, SPKR

## REFERENCE NAME LIST

ELECTRICAL SECTION		MECHANICAL SECTION	
DESCRIPTION	REFERENCE NAME	DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS	ADHESIVE	SHEET ADHESIVE
C-	CHIP	AZ	AZIMUTH
C-CAP	CAP, CHIP	BAR-ANT	BAR-ANTENNA
C-CAP TN	CAP, CHIP TANTALUM	BAT	BATTERY
C-COIL	COIL, CHIP	BATT	BATTERY
C-DI	DIODE, CHIP	BRG	BEARING
C-DIODE	DIODE, CHIP	BTN	BUTTON
C-FET	FET, CHIP	CAB	CABINET
C-FOTR	FILTER, CHIP	CASS	CASSETTE
C-JACK	JACK, CHIP	CHAS	CHASSIS
C-LED	LED, CHIP	CLR	COLLAR
C-RES	RES, CHIP	CONT	CONTROL
C-SFR	SFR, CHIP	CRSR	CURSOR
C-SLIDE SW	SLIDE SWITCH, CHIP	CU	CUSHION
C-SW	SWITCH, CHIP	CUSH	CUSHION
C-TR	TRANSISTOR, CHIP	DIR	DIRECTION
C-VR	VOLUME, CHIP	DUBB	DUBBING
C-ZENER	ZENER, CHIP	FL	FRONT LOADING
CAP, CER	CAP, CERA-SOL	FLY-WHL	FLYWHEEL
CAP, E	CAP, ELECT	FR	FRONT
CAP, M/F	CAP, FILM	FUN	FUNCTION
CAP, TC	CAP, CERA-SOL	G-CU	G-CUSHION
CAP, TC-U	CAP, CERA-SOL SS	HDL	HANDOL
CAP, TN	CAP, TANTALUM	HIMERON	CLOTH
CERA FIL	FILTER, CERAMIC	HINGE, BAT	HINGE, BATTERY
CF	FILTER, CERAMIC	HLDR	HOLDER
DL	DELAY LINE	HT-SINK	HEAT SINK
E/CAP	CAP, ELECT	IB	INSTRUCTION BOOKLET
FILT	FILTER	IDLE	IDLER
FLTR	FILTER	IND, L-R	INDICATOR, L-R
FUSE RES	RES, FUSE	KEY, CONT	KEY, CONTROL
MOT	MOTOR	KEY, PRGM	KEY, PROGRAM
P-DIODE	PHOTO DIODE	KNOB, SL	KNOB, SLIDE
P-SNSR	PHOTO SENSER	LBL	LABEL
P-TR	PHOTO TRANSISTOR	LID, BATT	LID, BATTERY
POLY VARI	VARIABLE CAPACITOR	LID, CASS	LID, CASSETTE
PPCAP	CAP, PP	LVR	LEVER
PT	POWER TRANSFORMER	P-SP	P-SPRING
PTR, RES	PTR, MELF	PANEL, CONT	PANEL, CONTORL
RC	REMOTE CONTROLLER	PANEL, FR	PANEL, FRONT
RES NF	RES, NON-FLAMMABLE	PRGM	PROGRAM
RESO	RESONATOR	PULLY, LOAD MO	PULLY, LOADING MOTOR
SHLD	SHIELD	RBN	RIBBON
SOL	SOLENOID	S-	SPECIAL
SPKR	SPEAKER	SEG	SEGMENT
SW, LVR	SWITCH, LEVER	SH	SHEET
SW, RTRY	SWITCH, ROTARY	SHLD-SH	SHIELD-SHEET
SW, SL	SWITCH, SLIDE	SL	SLIDE
TC CAP	CAP, CERA-SOL	SP	SPRING
THMS	THERMISTOR	SP-SCREW	SPECIAL-SCREW
TR	TRANSISTOR	SPACER, BAT	SPACER, BATTERY
TRIMMER	CAP, TRIMMER	SPR	SPRING
TUN-CAP	VARIABLE CAPACITOR	SPR-P	P-SPRING
VIB, CER	RESONATOR, CERAMIC	SPR-PC-PUSH	P-SPRING, C-PUSH
VIB, XTAL	RESONATOR, CRYSTAL	T-SP	T-SPRING
VR	VOLUME	TERM	TERMINAL
ZENER	DIODE, ZENER	TRIG	TRIGGER
サージブレーカ セラコン	SERGE SUPPRESSOR CAP, CERA	TUN	TUNING
		VOL	VOLUME
		W	WASHER
		WHL	WHEEL
		WORM-WHL	WORM-WHEEL
		ジアーム	ARM, SHAFT
		ジグガイド	GUIDE, SHAFT
		ストラップ	STRAP
		トクナベ	S-SCRW
		ヒンジ	HINGE
		ヒンジビス	S-SCRW
		ビスセレット	SCRW, SERRART